

# Low Power Mosfet

## N-Channel Low Power SMD

Type No.	Absolute maximum ratings / Electrical characteristics									Package	Manufacturer	
	Ta=25°C											
	VDSS [V]	ID [A]	RDS(on)					Ciss [pF]	Qg [nC]			PD [W]
			VGS = 10V	VGS = 4.5V	VGS = 4.0V	VGS = 2.5V	VGS = 1.8V					
max [Ω]			max [Ω]	max [Ω]	max [Ω]	max [Ω]						

### SOT563

SCH1417	15	1.8			0.16	0.24		105	1.86	0.65	SOT563	Sanyo
SCH1406	20	1.7				0.28	0.39	100	4.5	0.8	SOT563	Sanyo
SCH1410	20	2			0.15	0.2		190	2.7	0.8	SOT563	Sanyo
SCH1416	20	2	0.16		0.44			77	2.9	0.8	SOT563	Sanyo
SCH1402	20	3				0.102	0.133	280	8.8	0.8	SOT563	Sanyo
SCH1412	30	1.4	0.3		0.56			65	2.5	0.8	SOT563	Sanyo
SCH1419	30	1.5			0.215	0.295		130	2.2	0.8	SOT563	Sanyo
SCH1411	30	2	0.17		0.285			120	3.6	0.8	SOT563	Sanyo
SCH1404	30	2.5	0.11		0.175			180	4.9	0.8	SOT563	Sanyo

### SOT323

MCH3456	15	1.8			0.16	0.24		105	1.86	0.8	SOT323	Sanyo
MCH3447	20	1.2	0.32		0.675			38	2.1	0.6	SOT323	Sanyo
MCH3405	20	1.8				0.28	0.39	100	4.5	0.8	SOT323	Sanyo
MCH3445	20	2				0.235	0.34	120	2.3	0.8	SOT323	Sanyo
MCH3409	20	2			0.13	0.18		190	2.7	0.9	SOT323	Sanyo
MCH3446	20	2.5				0.135	0.198	270	4	0.9	SOT323	Sanyo
MCH3406	20	3				0.082	0.11	280	8.8	1	SOT323	Sanyo
MCH3427	20	4				0.076	0.11	400	6	1	SOT323	Sanyo
3LN01M	30	0.15			3.7	5.2		7	1.58	0.15	SOT323	Sanyo
3HN04MH	30	0.3			0.9	2.2		22	1.68	0.6	SOT323	Sanyo
3LN03M	30	0.35			0.9	1.15		30	1	0.15	SOT323	Sanyo
MCH3435	30	0.7			0.9	1.15		30	1	0.6	SOT323	Sanyo
MCH3408	30	1.4	0.3		0.56			65	2.5	0.8	SOT323	Sanyo
MCH3443	30	1.5			0.215	0.295		130	2.2	0.8	SOT323	Sanyo
MCH3459	30	1.8	0.195		0.41			95	3.2	0.8	SOT323	Sanyo
MCH3410	30	2	0.15		0.27			120	3.6	0.9	SOT323	Sanyo
MCH3444	30	2.5			0.108	0.15		270	3.7	0.9	SOT323	Sanyo
MCH3460	30	2.5	0.105		0.21			187	5.2	0.9	SOT323	Sanyo
MCH3411	30	3			0.09	0.118		270	3.7	1	SOT323	Sanyo
MCH3412	30	3	0.084		0.15			180	4.9	1	SOT323	Sanyo
MCH3431	30	3.5			0.072	0.098		415	5.1	1	SOT323	Sanyo
5LN01M	50	0.1			7.8	9.9		6.6	1.57	0.15	SOT323	Sanyo
5HN01M	50	0.1			7.5	10.5		6.2	1.4	0.15	SOT323	Sanyo
MCH3414	60	1	0.63		0.9			70	3	0.8	SOT323	Sanyo
MCH3415	60	1.5	0.315		0.56			150	4.8	0.9	SOT323	Sanyo
MCH3416	60	1.8	0.22		0.3			220	6.4	1	SOT323	Sanyo
MCH3420	100	0.5	1.85		2.5			80	3.2	0.8	SOT323	Sanyo
MCH3421	100	0.8	0.89		1.2			165	4.8	0.9	SOT323	Sanyo
MCH3421	100	0.8	0.89		1.2			165	4.8	0.9	SOT323	Sanyo

### SOT363

UPA620TT	20	5		0.038	0.039	0.054					SOT363	NEC
UPA621TT	20	5		0.05	0.053	0.079					SOT363	NEC
UPA622TT	30	3	0.082		0.139						SOT363	NEC

### SOT23

CPH3417	20	1.8				0.13	0.18	0.39	100	4.5	0.9	SOT23	Sanyo
CPH3413	20	2.2							190	2.7	1	SOT23	Sanyo
2SK3576	20	4		0.05	0.053	0.075						SOT23	NEC
CPH3437	20	4.5			0.039	0.055			755	9.9	1	SOT23	Sanyo
CPH3440	20	7			0.022	0.029			1305	17.2	1.2	SOT23	Sanyo
3LN01C	30	0.15			3.7	5.2			7	1.58	0.25	SOT23	Sanyo
3LN02C	30	0.3			1.2	1.7			30	2.34	0.25	SOT23	Sanyo
CPH3418	30	1.4	0.3		0.56				65	2.5	0.9	SOT23	Sanyo
CPH3414	30	2.2	0.15		0.27				120	3.6	1	SOT23	Sanyo
2SK3105	30	2.5	0.095	0.135	0.15							SOT23	NEC
CPH3445	30	3.5	0.068		0.125				295	7.2	1	SOT23	Sanyo
2SK3577	30	3.5		0.063	0.065	0.091						SOT23	NEC
CPH3439	30	4.5			0.045	0.061			748	8.6	1	SOT23	Sanyo
CPH3438	30	4.5	0.043		0.087				526	11.3	1	SOT23	Sanyo
CPH3442	30	6.5			0.024	0.031			1295	16.1	1.2	SOT23	Sanyo
CPH3441	30	6.5	0.025		0.05				994	19.8	1.2	SOT23	Sanyo
5LN01C	50	0.1			7.8	9.9			6.6	1.57	0.25	SOT23	Sanyo
5HN01C	50	0.1			7.5	10.5			6.2	1.4	0.25	SOT23	Sanyo
5LN02C	50	0.2			2.4	3			25	2.18	0.25	SOT23	Sanyo
5HN02C	50	0.2			2.3	3.2			22	1.86	0.25	SOT23	Sanyo
CPH3422	60	1	0.63		0.9				70	3	0.9	SOT23	Sanyo
CPH3423	60	1.5	0.31		0.45				150	4.8	1	SOT23	Sanyo
CPH3424	60	1.8	0.22		0.3				220	6.4	1	SOT23	Sanyo
CPH3430	60	2			0.22		0.27		325	4.2	1	SOT23	Sanyo
CPH3425	100	0.5	1.85		2.5				80	3.2	0.9	SOT23	Sanyo
CPH3426	100	0.8	0.89		1.2				165	4.8	1	SOT23	Sanyo
CPH3427	100	1	0.63		0.81				240	6.5	1	SOT23	Sanyo
CPH3431	200	0.6	2.4		2.8				340	7	1	SOT23	Sanyo
2SK4035	250	0.5	4.5									SOT23	NEC
2SK3072	450	0.03	275		300				20	-	0.25	SOT23	Sanyo

### SOT23-6

CPH6415	20	4				0.041	0.088	0.12	280	5	1.6	SOT23-6	Sanyo
CPH6413	20	5					0.054		570	7.6	1.6	SOT23-6	Sanyo
CPH6411	20	6				0.026	0.037		1200	13	1.6	SOT23-6	Sanyo
CPH6416	30	4	0.084			0.15			180	4.9	1.6	SOT23-6	Sanyo
CPH6414	30	5	0.048			0.088			370	8.5	1.6	SOT23-6	Sanyo
CPH6412	30	6	0.033			0.049			690	16	1.6	SOT23-6	Sanyo
CPH6429	60	2				0.22	0.27		325	4.2	1.6	SOT23-6	Sanyo
CPH6424	60	3	0.145			0.215			266	7.8	1.6	SOT23-6	Sanyo
CPH6428	100	2.5	0.22			0.31			440	13	1.6	SOT23-6	Sanyo

SOT563  
SCH6  
SC89-6

SOT323  
MCPH3  
SC703  
UMT3

Mosfet

SOT363  
SC70-6  
UMT6  
USOF-6

SOT23  
MPAK  
CPH3  
SC96  
SC59  
T0236  
SMT3

SOT23-6  
SOT26  
SSOT6  
CPH6

## N-Channel Low Power SMD

Type No.	Absolute maximum ratings / Electrical characteristics								Package	Manufacturer		
	Ta=25°C											
	VDSS [V]	ID [A]	RDS(on)					Ciss [pF]			Qg [nC]	PD [W]
			VGS = 10V	VGS = 4.5V	VGS = 4.0V	VGS = 2.5V	VGS = 1.8V					
max [Ω]			max [Ω]	max [Ω]	max [Ω]	max [Ω]						

### SOT89

2SK1583	16	0.5			1.500	2					SOT89	NEC
2SK1585	16	1			1	1.2					SOT89	NEC
2SK1587	16	2			0.5	0.8					SOT89	NEC
2SK1959	16	2			0.5	0.6					SOT89	NEC
2SK1588	16	3			0.3	0.5					SOT89	NEC
2SK1960	16	3			0.2	0.3					SOT89	NEC
2SK3485	20	2.5			0.14	0.195		190	2.7	3.5	SOT89	Sanyo
2SK3486	20	8			0.043	0.056		570	7.6	3.5	SOT89	Sanyo
2SK3487	20	8			0.033	0.047		1000	14	3.5	SOT89	Sanyo
2SK1584	30	0.5	1.5		2						SOT89	NEC
2SK1586	30	1	0.6		1						SOT89	NEC
2SK680A	30	1	0.7		1						SOT89	NEC
2SK1483	30	2	400		0.8						SOT89	NEC
2SK3488	30	2.5	0.16		0.28			120	3.6	3.5	SOT89	Sanyo
2SK3489	30	8	0.048		0.088			370	8.5	3.5	SOT89	Sanyo
2SK3490	30	8	0.039		0.056			690	16	3.5	SOT89	Sanyo
2SK2109	60	0.5	0.8		1000						SOT89	NEC
2SK1592	60	0.5	2		2500						SOT89	NEC
2SK2111	60	1	0.45		600						SOT89	NEC
2SK3944	60	2	0.34		0.48			150	4.8	3.5	SOT89	Sanyo
2SK2159	60	2			0.3	0.5					SOT89	NEC
2SK1273	60	2	0.65		0.1						SOT89	NEC
2SK3614	60	4	0.145		0.215			300	7.8	3.5	SOT89	Sanyo
2SK2857	60	4	0.15		0.22						SOT89	NEC
2SK1593	100	0.5	5		6						SOT89	NEC
2SK2110	100	0.5	1.2		1.5						SOT89	NEC
2SK2112	100	1	0.8		1.2						SOT89	NEC
2SK1485	100	1	0.8		1.2						SOT89	NEC
2SK2260	150	1.2	2.2		-			80	-	3.5	SOT89	Sanyo
2SK2951	200	1	3.5		-			60	-	3.5	SOT89	Sanyo
2SK2167	250	0.4	12		-			37	-	3.5	SOT89	Sanyo

### TSSOP8

UPA1820GR	20	12		0.009	0.009	12					TSSOP8	NEC
FTS2051	30	4.5	0.055		0.09			370	8.5	1.2	TSSOP8	Sanyo
UPA1803GR	30	8	0.012	0.016							TSSOP8	NEC
UPA1804GR	30	8	0.023	0.032							TSSOP8	NEC
UPA1809GR	30	8	0.021	0.029	0.032						TSSOP8	NEC
UPA1808GR	30	9.5	0.017	0.023	0.026						TSSOP8	NEC
UPA1807GR	30	12	0.01	0.014	0.016						TSSOP8	NEC
UPA1806GR	30	13	0.009	0.012	0.013						TSSOP8	NEC
FTS2052	60	2.5	0.145		0.215			300	7.8	1.2	TSSOP8	Sanyo
FTS2053	100	2	0.22		0.31			530	13	1.3	TSSOP8	Sanyo
UPA1840GR	200	2.2	500								TSSOP8	NEC

### S08

UPA1725G	20	7		0.021	0.022	0.03					S08	NEC
UPA1724G	20	10		0.011	0.012	0.015					S08	NEC
UPA1726G	20	12		0.009	0.01	0.013					S08	NEC
UPA1723G	20	13		0.007	0.007	0.009					S08	NEC
FSS250	30	7	0.033		0.054			530	10	1.8	S08	Sanyo
FSS242	30	8	0.026		0.04			750	14	1.8	S08	Sanyo
FSS244	30	10	0.017		0.028			980	17	2	S08	Sanyo
FSS262	30	10	0.016		0.023			1700	33	1.8	S08	Sanyo
UPA2706GR	30	11	0.015	0.023	0.029						S08	NEC
FSS234	30	12	0.013		0.019			1450	28	2	S08	Sanyo
FSS802	30	12	0.013		0.021			2300	33	3	S08	Sanyo
UPA2709GR	30	13	0.011	0.015							S08	NEC
UPA2728GR	30	13	0.011	0.018							S08	NEC
UPA2701GR	30	14	0.008	0.012	0.014						S08	NEC
UPA2720GR	30	14	0.007	0.01							S08	NEC
FSS804	30	14	0.01		0.016			3000	50	3.3	S08	Sanyo
UPA2708GR	30	17	0.006	0.008							S08	NEC
UPA2721GR	30	19	0.004	0.006							S08	NEC
UPA2707GR	30	19	0.004	0.006							S08	NEC
UPA2722UGR	30	21	0.003	0.004							S08	NEC
FW216	35	3.5	0.09		0.196			260	6	1.6	S08	Sanyo
FSS218	35	8	0.026		0.054			1050	19	1.8	S08	Sanyo
FW248	45	6	0.034		0.059			1040	23	1.8	S08	Sanyo
FSS273	45	8	0.022		0.034			2225	40	2.4	S08	Sanyo
UPA1728G	60	9	0.026	0.029	0.034						S08	NEC
UPA1727G	60	10	0.019	0.022	0.025						S08	NEC
FSS264	100	4	0.085		0.112			1560	34	2.4	S08	Sanyo

### HSOP8

UPA2706TP	30	20	0.015	0.023	0.029						HSOP8	NEC
UPA2701TP	30	35	0.008	0.012	0.014						HSOP8	NEC
UPA2702TP	30	35	0.010	0.015	0.017						HSOP8	NEC
UPA2708TP	30	40	0.006	0.008							HSOP8	NEC
UPA2707TP	30	42	0.004	0.006							HSOP8	NEC
UPA1744TP	100	10	0.03								HSOP8	NEC
UPA1740TP	200	7	0.44								HSOP8	NEC
UPA1741TP	250	5	0.79								HSOP8	NEC
UPA1742TP	250	7	0.55								HSOP8	NEC
UPA1743TP	250	8	0.45								HSOP8	NEC

\* Heat sink bottom side

SOT89  
UPAK  
PCP  
SC-62  
MTP3

Mosfet

TSSOP8

S08

HSOP8\*

# Low Power Mosfet

## N-Channel Low Power SMD

Type No.	Absolute maximum ratings / Electrical characteristics								Package	Manufacturer		
	Ta=25°C											
	VDSS	ID	RDS(on)					Ciss			Qg	PD
	[V]	[A]	VGS = 10V max [Ω]	VGS = 4.5V max [Ω]	VGS = 4.0V max [Ω]	VGS = 2.5V max [Ω]	VGS = 1.8V max [Ω]	[pF]			[nC]	[W]

### HVSON8

UPA2727UT1A	30	16	0.010	0.015							HVSON8	NEC
UPA2726UT1A	30	20	0.007	0.011							HVSON8	NEC
UPA2725UT1A	30	25	0.005	0.008							HVSON8	NEC
UPA2722UT1A	30	29	0.003	0.005							HVSON8	NEC
UPA2724UT1A	30	29	0.003	0.005							HVSON8	NEC
UPA2723UT1A	30	33	0.003	0.004							HVSON8	NEC
NP35N04YUG*	40	35	0.010					1900	34		HVSON8	NEC
NP74N04YUG*	40	75	0.006					3500	64		HVSON8	NEC
NP75N04YUG*	40	75	0.005					4300	77		HVSON8	NEC
NP23N06YDG*	60	23	0.027	0.037	1)			1250	26		HVSON8	NEC
NP33N06YDG*	60	33	0.014					2600	52		HVSON8	NEC

### S08-Flat

RJK0368DPA	30	20	0.0143	0.0240				730			S08-Flat	Renesas
RJK0366DPA	30	25	0.011	0.0158				990			S08-Flat	Renesas
RJK0355DPA	30	30	0.0107	0.0165				860			S08-Flat	Renesas
RJK03B9DPA	30	30	0.0106	0.0151				1110			S08-Flat	Renesas
RJK0397DPA	30	30	0.0101	0.0146				1110			S08-Flat	Renesas
RJK03B8DPA	30	30	0.0093	0.0129				1330			S08-Flat	Renesas
RJK0365DPA	30	30	0.0091	0.0134				1180			S08-Flat	Renesas
RJK0396DPA	30	30	0.0090	0.0126				1330			S08-Flat	Renesas
RJK0364DPA	30	35	0.0078	0.0112				1600			S08-Flat	Renesas
RJK0395DPA	30	35	0.0077	0.0106				1670			S08-Flat	Renesas
RJK0316DPA	30	40	0.0061	0.0091				2080			S08-Flat	Renesas
RJK0394DPA	30	40	0.0053	0.0074				2430			S08-Flat	Renesas
RJK0353DPA	30	35	0.0052	0.0076				2180			S08-Flat	Renesas
RJK0393DPA	30	45	0.0043	0.0059				3270			S08-Flat	Renesas
RJK0351DPA	30	40	0.0040	0.0059				2750			S08-Flat	Renesas
RJK0392DPA	30	50	0.0035	0.0048				4200			S08-Flat	Renesas
RJK0349DPA	30	45	0.0031	0.0043				3850			S08-Flat	Renesas
RJK0391DPA	30	65	0.0029	0.0039				5600			S08-Flat	Renesas
RJK0348DPA	30	50	0.0025	0.0035				5100			S08-Flat	Renesas
RJK0390DPA	30	70	0.0022	0.0029				8900			S08-Flat	Renesas
RJK346DPA	30	65	0.002	0.0027				7650			S08-Flat	Renesas
RJK03C0DPA	30	40	0.0018	0.0024				11000			S08-Flat	Renesas
RJK03B7DPA	30	30	0.0778	0.0107				1670			S08-Flat	Renesas
RJK1557DPA	150	25	0.058					1250			S08-Flat	Renesas
RJK1555DPA	150	25	0.048					2400			S08-Flat	Renesas
RJK2057DPA	200	20	0.085					1250			S08-Flat	Renesas
RJK2055DPA	200	20	0.069					2400			S08-Flat	Renesas
RJK2557DPA	250	17	0.128					1250			S08-Flat	Renesas
RJK2555DPA	250	17	0.104					2400			S08-Flat	Renesas

### LFPAK

HAT2134H	20	60	0.0029	0.0058				4500		30	LFPAK	Renesas
HAT2160H	20	60	0.003	0.004				7700		30	LFPAK	Renesas
RJK0332DP	30	35	0.0047	0.007				2180		30	LFPAK	Renesas
RJK0331DPB	30	40	0.0034	0.0049				3220		30	LFPAK	Renesas
RJK0330DPB	30	45	0.0027	0.0039				4300		30	LFPAK	Renesas
RJK0329DPB	30	55	0.0023	0.0034				5330		30	LFPAK	Renesas
RJK0328DPB	30	60	0.0021	0.0029				6380		30	LFPAK	Renesas
RJK0305DPB	30	30	0.008	0.013				1250		30	LFPAK	Renesas
RJK0304DPB	30	35	0.005	0.007				2500		30	LFPAK	Renesas
RJK0303DPB	30	40	0.004	0.006				3300		30	LFPAK	Renesas
RJK0302DPB	30	50	0.003	0.005				4200		30	LFPAK	Renesas
RJK0301DPB	30	60	0.003	0.004				5000		30	LFPAK	Renesas
HAT2139H	40	20	0.0115					2000		30	LFPAK	Renesas
HAT2129H	40	30	0.0075					3200		30	LFPAK	Renesas
HAT2137H	40	45	0.0048					6200		30	LFPAK	Renesas
HAT2172H	40	30	0.008					1445		30	LFPAK	Renesas
HAT2171H	40	40	0.005					2280		30	LFPAK	Renesas
HAT2170H	40	45	0.004					3600		30	LFPAK	Renesas
HAT2169H	40	50	0.004	0.006				6650		30	LFPAK	Renesas
HAT2266H	60	30	0.013					3600		30	LFPAK	Renesas
HAT2279H	80	30	0.012	0.015				3520		30	LFPAK	Renesas
HAT2142H	100	10	0.044					2000		30	LFPAK	Renesas
HAT2141H	100	15	0.0275					3200		30	LFPAK	Renesas
HAT2175H	100	15	0.042					1445		30	LFPAK	Renesas
HAT2174H	100	20	0.027					2280		30	LFPAK	Renesas
HAT2173H	100	25	0.015					4350		30	LFPAK	Renesas
HAT2132H	200	6	0.45					450		30	LFPAK	Renesas
HAT2119H	250	5	0.63					450		30	LFPAK	Renesas

### LFPAK-inverse

HAT2168N	30	30	0.008		0.014			1780			LFPAK-i	Renesas
RJK0305DPC	30	30	0.008	0.013				1250			LFPAK-i	Renesas
RJK0304DPC	30	35	0.005	0.008				2500			LFPAK-i	Renesas
RJK0303DPC	30	40	0.004	0.006				3300			LFPAK-i	Renesas
HAT2166N	30	45	0.004	0.006				4200			LFPAK-i	Renesas
HAT2165N	30	55	0.004	0.006				5180			LFPAK-i	Renesas
RJK0302DPC	30	50	0.003	0.005				4200			LFPAK-i	Renesas
RJK0301DPC	30	60	0.003	0.004				5000			LFPAK-i	Renesas
HAT2172N	40	30	0.008					1445			LFPAK-i	Renesas
HAT2171N	40	40	0.005					2280			LFPAK-i	Renesas
HAT2170N	40	45	0.005					3600			LFPAK-i	Renesas
HAT2169N	40	50	0.004	0.006				6650			LFPAK-i	Renesas
HAT2279N	80	30	0.012	0.015				3520			LFPAK-i	Renesas
HAT2175N	100	15	0.042					1445			LFPAK-i	Renesas
HAT2174N	100	20	0.027					2280			LFPAK-i	Renesas

\* Heat sink bottom side  
 \*\* Heat sink top side  
 1) VGS = 5V



P-Channel Low Power

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDSS [V]	ID [A]	RDS(on)					Ciss [pF]	Qg [nC]	PD [W]		
			VGS = 10V	VGS = 4.5V	VGS = 4.0V	VGS = 2.5V	VGS = 1.8V					
max [Ω]			max [Ω]	max [Ω]	max [Ω]	max [Ω]						

**SOT563**

SCH1305	12	1.5				0,47	0,67	160	2,6	0,7	SOT563	Sanyo
SCH1301	12	2,4				0,175	0,28	450	6,5	0,8	SOT563	Sanyo
SCH1306	20	1			0,5	0,76		115	1,5	0,8	SOT563	Sanyo
SCH1310	20	1,5			0,255	0,36		290	3,2	0,8	SOT563	Sanyo
SCH1302	20	2				0,22	0,28	410	10	0,8	SOT563	Sanyo
SCH1311	30	1,5	0,29		0,525					0,8	SOT563	Sanyo
SCH1304	30	2	0,17		0,32					0,8	SOT563	Sanyo



SOT563

**SOT323**

MCH3317	12	1,5				0,45	0,65	160	2,6	0,8	SOT323	Sanyo
MCH3339	12	1,5	0,27		0,49					0,8	SOT323	Sanyo
MCH3318	12	2				0,225	0,33	310	4,6	0,9	SOT323	Sanyo
MCH3319	12	2,6				0,155	0,255	450	6,5	1	SOT323	Sanyo
MCH3307	20	1			0,5	0,76		115	1,5	0,8	SOT323	Sanyo
MCH3309	20	1,5			0,235	0,34		290	3,2	0,9	SOT323	Sanyo
MCH3306	20	2				0,2	0,26	410	10	1	SOT323	Sanyo
MCH3335	30	0,4			1,8	2,8		40	0,83	0,6	SOT323	Sanyo
MCH3308	30	1	0,55		1					0,8	SOT323	Sanyo
MCH3359	30	1,2	0,42		0,83					0,8	SOT323	Sanyo
MCH3333	30	1,5			0,28	0,41		285	2,6	0,9	SOT323	Sanyo
MCH3310	30	1,5	0,27		0,5					0,9	SOT323	Sanyo
MCH3360	30	1,8	0,235		0,45					0,9	SOT323	Sanyo
MCH3312	30	2	0,145		0,29					1	SOT323	Sanyo
MCH3314	60	0,6	1,7		2,3					0,8	SOT323	Sanyo
MCH3315	60	1	0,76		1,1					0,9	SOT323	Sanyo
MCH3316	60	1,2	0,53		0,75					1	SOT323	Sanyo
MCH3320	100	0,3	3,9		5					0,8	SOT323	Sanyo
6HP04MH	60	0,12			2,4	3,7		27	1,88	0,6	SOT323	Sanyo
MCH3321	100	0,5	2		2,5					0,9	SOT323	Sanyo
MCH3322	100	0,6	1,45		1,7					1	SOT323	Sanyo



SOT323

MOSFET

**SOT363**

UPA654TT	12	2,5		0,088		0,133	234				SOT363	NEC
MCH6308	12	3,5				0,155	0,225	450	6,5	1,5	SOT363	Sanyo
UPA650TT	12	5		0,05		0,068	114				SOT363	NEC
MCH6307	12	5				0,066	0,098	940	11	1,5	SOT363	Sanyo
UPA652TT	20	2		0,294	0,336	0,514					SOT363	NEC
MCH6305	20	4			0,065	0,098		680	8,7	1,5	SOT363	Sanyo
UPA651TT	20	5		0,069		0,088	142				SOT363	NEC
MCH6428	20	5			0,05	0,07	0,11	340	1,5	-	SOT363	Sanyo
MCH6429	20	6			0,028	0,038	0,076	680	1,5	-	SOT363	Sanyo
MCH6318	30	2	0,145		0,29					1	SOT363	Sanyo
UPA653TT	30	2,5	0,165	0,267	0,304						SOT363	NEC
MCH6306	30	4	0,069		0,129					1,5	SOT363	Sanyo
MCH6412	30	5				0,057	0,09	790	7	1,5	SOT363	Sanyo
MCH6424	60	3			0,115	0,135		690	8,2	1,5	SOT363	Sanyo



SOT363

**SOT23**

CPH3319	12	1,5				0,45	0,65	160	2,6	0,9	SOT23	Sanyo
CPH3320	12	2				0,225	0,33	310	4,6	1	SOT23	Sanyo
CPH3321	12	2,6				0,155	0,225	450	6,5	1	SOT23	Sanyo
2SJ621	12	3,5		0,044		0,062	0,105				SOT23	NEC
CPH3317	20	1			0,47	0,73		115	1,5	0,9	SOT23	Sanyo
CPH3313	20	1,6			0,235	0,34		290	3,2	1	SOT23	Sanyo
2SJ625	20	3		0,113		0,171	0,314				SOT23	NEC
CPH3337	20	3,5			0,074	0,113		903	9,3	1	SOT23	Sanyo
2SJ624	20	4,5		0,054		0,071	0,108				SOT23	NEC
CPH3340	20	5			0,045	0,062		1875	16	1,2	SOT23	Sanyo
CPH3318	30	1	0,55		1					0,9	SOT23	Sanyo
CPH3314	30	1,6	0,27		0,5					1	SOT23	Sanyo
CPH3345	30	2	0,13		0,24					1	SOT23	Sanyo
2SJ557	30	2,5	0,155	0,255	0,29						SOT23	NEC
CPH3338	30	3,5	0,074		0,141					1	SOT23	Sanyo
CPH3341	30	5	0,045		0,094					1,2	SOT23	Sanyo
CPH3322	60	0,6	1,7		2,3					0,9	SOT23	Sanyo
CPH3323	60	1	0,76		1,1					1,5	SOT23	Sanyo
CPH3324	60	1,2	0,53		0,75					1	SOT23	Sanyo
2SJ626	60	1,5	0,388	0,514	0,556						SOT23	NEC
CPH3325	100	0,3	3,9		5					0,9	SOT23	Sanyo
CPH3326	100	0,5	2		2,5					1	SOT23	Sanyo
CPH3327	100	0,6	1,45		1,7					1	SOT23	Sanyo
CPH3331	200	0,4	5		5,6					1	SOT23	Sanyo



SOT23

**SOT23-6**

CPH6320	12	3,5				0,155	0,225	450	6,5	1,6	SOT23-6	Sanyo
UPA1912TE	12	4,5		0,05	0,052	0,07					SOT23-6	NEC
UPA1916TE	12	4,5		39		55	98				SOT23-6	NEC
CPH6319	12	5				0,073	0,105	940	11	1,5	SOT23-6	Sanyo
CPH6318	12	6				0,05	0,075	1900	22	1,6	SOT23-6	Sanyo
UPA1911ATE	20	2,5		0,115	0,12	0,19					SOT23-6	NEC
CPH6315	20	3			0,15	0,21		410	4,5	1,6	SOT23-6	Sanyo
CPH6313	20	4			0,072	0,11		680	8,7	1,6	SOT23-6	Sanyo



SOT23-6

# Low Power Mosfet

## P-Channel Low Power

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDSS [V]	ID [A]	RDS(on)					Ciss [pF]	Qg [nC]	PD [W]		
			VGS = 10V	VGS = 4.5V	VGS = 4.0V	VGS = 2.5V	VGS = 1.8V					
max [Ω]			max [Ω]	max [Ω]	max [Ω]	max [Ω]						
UPA1913TE	20	4,5		0,055	0,058	0,09					SOT23-6	NEC
UPA1915TE	20	4,5		0,055	0,058	0,09					SOT23-6	NEC
CPH6311	20	5			0,042	0,06		1230	31	1,6	SOT23-6	Sanyo
UPA1917TE	20	6		0,053		0,07	0,107				SOT23-6	NEC
UPA1919TE	20	6		0,058	0,06	0,084					SOT23-6	NEC
CPH6329	30	2			0,28	0,41		285	2,6	1,2	SOT23-6	Sanyo
CPH6316	30	3	0,15		0,295					1,6	SOT23-6	Sanyo
CPH6314	30	4	0,069		0,129					1,6	SOT23-6	Sanyo
UPA1914TE	30	4,5	0,057	0,086	0,096						SOT23-6	NEC
UPA1930TE	30	4,5	0,077	0,1							SOT23-6	NEC
CPH6312	30	5	0,053		0,087					1,6	SOT23-6	Sanyo
CPH6324	60	2	0,36		0,56					1,6	SOT23-6	Sanyo
UPA1918TE	60	3,5	0,143	0,179	0,19						SOT23-6	NEC
CPH6328	100	1,6	0,53		0,73					1,6	SOT23-6	Sanyo



Mosfet

SOT89												
2SJ628	12	2,5				0,24	0,36	310	4,6	3,5	SOT89	Sanyo
2SJ629	12	4,5				0,155	0,225	450	6,5	3,5	SOT89	Sanyo
2SJ630	12	6				0,08	0,112	940	11	3,5	SOT89	Sanyo
2SJ205	16	0,5			3	5					SOT89	NEC
2SJ207	16	1			1,5	4					SOT89	NEC
2SJ208	16	2			1	3					SOT89	NEC
2SJ612	20	2,5			0,245	0,35		290	3,2	3,5	SOT89	Sanyo
2SJ613	20	6			0,069	0,098		680	7,8	3,5	SOT89	Sanyo
2SJ206	30	0,5	3		4						SOT89	NEC
2SJ179	30	1,5	1		1,5						SOT89	NEC
2SJ355	30	2	0,35		0,6						SOT89	NEC
2SJ615	30	2,5	0,27		0,46					3,5	SOT89	Sanyo
2SJ616	30	6	0,069		0,147					3,5	SOT89	Sanyo
2SJ212	60	0,5	3		4						SOT89	NEC
2SJ197	60	1,5	1		1,5						SOT89	NEC
2SJ356	60	2	0,5		0,95						SOT89	NEC
2SJ632	60	2	0,36		0,56					3,5	SOT89	Sanyo
2SJ213	100	0,5	4,2		5						SOT89	NEC
2SJ199	100	1	2		2,5						SOT89	NEC
2SJ670	100	1,5	0,535		0,745					1,5	SOT89	Sanyo

TSSOP8												
UPA1816GR	12	9		0,015	0,016	0,023	0,042				TSSOP8	NEC
UPA1815GR	20	7		0,015	0,016	0,023					TSSOP8	NEC
UPA1818GR	20	10		0,015	0,016	0,025					TSSOP8	NEC
UPA1817GR	20	12		0,012	0,013	0,019					TSSOP8	NEC
UPA1814GR	30	7	0,016	0,024	0,027						TSSOP8	NEC
UPA1830GR	30	9	0,017	0,025	0,028						TSSOP8	NEC
UPA1819GR	30	12	0,012	0,019	0,022						TSSOP8	NEC



S08												
FSS139	20	4			0,078	0,11		1000	23	1,8	S08	Sanyo
FSS131	20	6			0,038	0,058		2100	41	1,8	S08	Sanyo
FSS133	20	8			0,024	0,035		2900	65	1,8	S08	Sanyo
FSS137	20	11			0,015	0,021		6100	120	2	S08	Sanyo
FSS172	30	4,5	0,063		0,115					1,4	S08	Sanyo
UPA2733GR	30	5	0,038	0,053							S08	NEC
UPA2714GR	30	7	0,02	0,03	0,034						S08	NEC
UPA2713GR	30	8	0,016	0,025	0,03						S08	NEC
FSS162	30	8	0,024		0,043					2,4	S08	Sanyo
UPA2719GR	30	10	0,013	0,021	0,026						S08	NEC
FSS163	30	10	0,018		0,028					2,9	S08	Sanyo
UPA2718GR	30	13	0,009	0,015	0,018						S08	NEC
UPA2716GR	30	14	0,007	0,011	0,014						S08	NEC
UPA2717GR	30	15	0,006	0,009	0,010						S08	NEC
UPA2715GR	30	18	0,005	0,009							S08	NEC
FSS173	45	6	0,035		0,056					2,4	S08	Sanyo
FSS145	45	8	0,024		0,04					2,9	S08	Sanyo



HSOP8												
UPA1730TP	30	28	0,010	0,014	0,015						HSOP8	NEC
UPA2730TP	30	42	0,007	0,011	0,012						HSOP8	NEC

HSOP8\*

HWSON8												
UPA2510TM	30	18	0,010	0,014							HWSON8	NEC

HVSON8												
NP50P03YDG	30	50	0,009					2100	63		HVSON8	NEC
NP75P03YDG	30	75	0,006					3100	95		HVSON8	NEC
UPA2731UT1A	30	44	0,003	0,006							HVSON8	NEC
UPA2732UT1A	30	40	0,004	0,007							HVSON8	NEC

HVSON8\*

S08-Flat												
UPA2732UT1A	30	40	0,004	0,007							S08-Flat	NEC
UPA2731T1A	30	44	0,003	0,006							S08-Flat	NEC

S08-Flat\*

\* Heat sink bottom side

N/N-Channel Low Power

Type No.	Absolute maximum ratings / Electrical characteristics						Ciss	Qg	PD	Package	Manufacturer	
	Ta=25°C											
	VDS	ID	RDS(on) [Ω]				[pF]	[nC]	[W]			
	[V]	[A]	VGS=10V	VGS=4.5V	VGS=4V	VGS=2.5V						VGS=1.8V
CH1 / CH2	CH1 / CH2	[Ω]	[Ω]	[Ω]	[Ω]	[Ω]						
<b>SOT563</b>												
SCH2401	30 / 30	0.7 / 0.7			0.9	1.15		30	1	0.65	SOT563	Sanyo
<b>SOT363</b>												
MCH6616	20 / 20	1.6 / 1.6			0.23	0.31		105	1.4	0.8	SOT363	Sanyo
MCH6646	20 / 20	2 / 2			0.16	0.225	0.33	115	1.78	0.8	SOT363	Sanyo
MCH6602	30 / 30	0.35 / 0.35			3.7	5.2		7	1.58	0.8	SOT363	Sanyo
MCH6608	30 / 30	0.65 / 0.65			1.2	1.7		30	2.34	0.8	SOT363	Sanyo
MCH6630	30 / 30	0.7 / 0.7			0.9	1.15		30	1	0.8	SOT363	Sanyo
MCH6620	30 / 30	1.4 / 1.4	0.3		0.56			65	2.5	0.8	SOT363	Sanyo
MCH6606	50 / 50	0.25 / 0.25	7.5		10.5			6.2	1.4	0.8	SOT363	Sanyo
MCH6604	50 / 50	0.25 / 0.25			7.8	9.9		6.6	1.57	0.8	SOT363	Sanyo
MCH6612	50 / 50	0.45 / 0.45	2.3		3.2			22	1.86	0.8	SOT363	Sanyo
MCH6610	50 / 50	0.45 / 0.45			2.4	3		25	2.18	0.8	SOT363	Sanyo
MCH6622	60 / 60	1 / 1	0.63		0.9			70	3	0.8	SOT363	Sanyo
<b>SOT23-5</b>												
CPH5611 <sup>1)</sup>	20 / 20	3 / 3			0.07	0.102		280	8.8	0.9	SOT23-5	Sanyo
CPH5617 <sup>1)</sup>	30 / 30	0.15 / 0.15			3.7	5.2		7	1.58	0.25	SOT23-5	Sanyo
CPH5610 <sup>1)</sup>	60 / 60	1.2 / 1.2	0.5		0.68			70	3.6	0.9	SOT23-5	Sanyo
CPH5614 <sup>1)</sup>	100 / 100	1 / 1	0.63		0.81			240	6.5	0.9	SOT23-5	Sanyo
CPH5612 <sup>1)</sup>	100 / 100	1 / 1			0.57	0.65		350	4.4	0.9	SOT23-5	Sanyo
CPH5616 <sup>1)</sup>	60 / 60	1.7 / 1.7	0.22		0.3			-	-	0.8	SOT23-5	Sanyo
<b>SOT23-6</b>												
CPH6602	20 / 20	2 / 2			0.13	0.18		190	2.7	0.9	SOT23-6	Sanyo
CPH6612	20 / 20	2 / 2			0.165	0.235		120	2.3	0.8	SOT23-6	Sanyo
UPA1970TE	20 / 20	2.2 / 2.2		0.069	0.072	0.107				1.1	SOT23-6	NEC
CPH6613	20 / 20	2.5 / 2.5			0.095	0.135		270	4	0.9	SOT23-6	Sanyo
CPH6622	20 / 20	3 / 3			0.07	0.1		-	10.5	0.9	SOT23-6	Sanyo
CPH6604	30 / 30	2 / 2	0.15		0.27			120	3.6	0.9	SOT23-6	Sanyo
CPH6616	30 / 30	2.5 / 2.5	0.105		0.21			187	5.2	0.9	SOT23-6	Sanyo
<b>TSSOP8</b>												
FTD2011A	20 / 20	4 / 4			0.039	0.056		740	10	0.8	TSSOP8	Sanyo
UPA1870BGR <sup>1)</sup>	20 / 20	6 / 6		0.02	0.021	0.027				2	TSSOP8	NEC
UPA1873GR <sup>1)</sup>	20 / 20	6 / 6		0.023	0.024	0.029				2	TSSOP8	NEC
FTD2017A	20 / 20	6 / 6			0.023	0.033		1530	21	1.3	TSSOP8	Sanyo
FTD2017R <sup>1)</sup>	20 / 20	6 / 6			0.024	0.033		-	10	1.2	TSSOP8	Sanyo
FTD8005	20 / 20	6 / 6			0.019	0.026		1980	28	1.1	TSSOP8	Sanyo
FTD8004 <sup>1)</sup>	20 / 20	8 / 8			0.016	0.023		2400	28	1.4	TSSOP8	Sanyo
UPA1872BGR	20 / 20	10 / 10		0.013	0.0135	0.018				2	TSSOP8	NEC
FTD2012	30 / 30	4.5 / 4.5	0.034		0.06			750	18	0.8	TSSOP8	Sanyo
FTD2022	30 / 30	4.5 / 4.5	0.034		0.055			530	10	0.8	TSSOP8	Sanyo
UPA1871GR <sup>1)</sup>	30 / 30	6 / 6		0.026	0.027	0.038				2	TSSOP8	NEC
FTD2019A <sup>1)</sup>	30 / 30	6 / 6			0.026	0.034		1430	19	1.3	TSSOP8	Sanyo
FTD8007	30 / 30	6 / 6			0.022	0.029		1800	26.5	1.1	TSSOP8	Sanyo
UPA1874BGR <sup>1)</sup>	30 / 30	8 / 8		0.014	0.0145	0.0195				2	TSSOP8	NEC
FTD8002 <sup>1)</sup>	30 / 30	8 / 8			0.017	0.024		2610	26	1.4	TSSOP8	Sanyo
UPA1857GR	60 / 60	3.8 / 3.8	0.067	0.086	0.095					1.7	TSSOP8	NEC
<b>S08</b>												
FW231A	20 / 20	8 / 8			0.024	0.033		1530	21	2.3	S08	Sanyo
FW231	20 / 20	9 / 9			0.02	0.027		1950	60	1.7	S08	Sanyo
FW241	30 / 30	3.5 / 3.5	0.084		0.15			180	5	2	S08	Sanyo
UPA2757GR	30 / 30	5 / 5	0.036	0.05						2	S08	NEC
FW261	30 / 30	5 / 5	0.048		0.083			460	8.6	1.8	S08	Sanyo
FW245	30 / 30	7 / 7	0.034		0.055			550	10	1.7	S08	Sanyo
UPA2755GR	30 / 30	8 / 8	0.018	0.029						2.2	S08	NEC
FW808	30 / 30	8 / 8	0.022		0.038			870	16	2.3	S08	Sanyo
FW232A	30 / 30	8 / 8			0.026	0.034		1430	19	2.3	S08	Sanyo
UPA2750GR	30 / 30	9 / 9	0.0155	0.021	0.0239					2	S08	NEC
UPA2751GR	30 / 30	9 / 9	0.0155	0.021	0.0239					2	S08	NEC
FW262	30 / 30	9 / 9			0.016	0.02		2350	72	1.7	S08	Sanyo
UPA2754GR	30 / 30	11 / 11		0.0145	0.015	0.0186				2	S08	NEC
FW803	30 / 30	11 / 11	0.014		0.022			2300	33	2.4	S08	Sanyo
FW217	35 / 35	6 / 6	0.044		0.091			630	12	1.8	S08	Sanyo
FW250	60 / 60	3 / 3	0.145		0.215			300	7.8	1.8	S08	Sanyo
UPA2756GR	60 / 60	4 / 4	0.105		0.15					2	S08	NEC
UPA1763G	60 / 60	4.5 / 4.5	0.047	0.057	0.066					2	S08	NEC
FW256	60 / 60	5 / 5	0.058		0.084			790	16	2	S08	Sanyo
UPA1764G	60 / 60	7 / 7	0.035	0.042	0.046					2	S08	NEC
FW257	100 / 100	2 / 2	0.22		0.31			530	13	1.4	S08	Sanyo
FW225	450 / 450	0.7 / 0.7	11.2					130	5	1.6	S08	Sanyo
<b>HWSON6</b>												
UPA2450BTL <sup>1)</sup>	20 / 20	8.6 / 8.6		0.0175	0.0185	0.0275					HWSON6	NEC
UPA2450TL <sup>1)</sup>	20 / 20	8.6 / 8.6		0.0175	0.0185	0.0275					HWSON6	NEC
UPA2452TL <sup>1)</sup>	24 / 24	7.8 / 7.8		0.0215	0.0225	0.03					HWSON6	NEC
UPA2451TL <sup>1)</sup>	30 / 30	8.2 / 8.2		0.02	0.021	0.032					HWSON6	NEC
UPA2451BTL <sup>1)</sup>	30 / 30	8.2 / 8.2		0.02	0.021	0.032					HWSON6	NEC

<sup>1)</sup> common Drain  
\* Heat sink bottom side



SOT563



SOT363



SOT23-5



Mosfet



SOT23-6



TSSOP8



S08



HWSON6\*

# Low Power Mosfet

## P/P-Channel Low Power

Type No.	Absolute maximum ratings / Electrical characteristics							Ciss	Qg	PD	Package	Manufacturer
	Ta=25°C											
	VDSS	ID	RDS(on) [Ω]					[pF]	[nC]	[W]		
	[V]	[A]	VGS=10V	VGS=4.5V	VGS=4V	VGS=2.5V	VGS=1.8V					
CH1 / CH2	CH1 / CH2	[Ω]	[Ω]	[Ω]	[Ω]	[Ω]						
<b>SOT563</b>												
SCH2315	12 / 12	0.9 / 0.9		0,615		0,97	1,38	92	1,43	0,65	SOT563	Sanyo
SCH2301	30 / 30	0.4 / 0.4			1,9	2,8	8	40	0,83	0,65	SOT563	Sanyo
<b>SOT363</b>												
MCH6635	20 / 20	0.8 / 0.8			0,9	1,35		76	1,18	0,8	SOT363	Sanyo
MCH6617	20 / 20	1 / 1			0,5	0,76		115	1,5	0,8	SOT363	Sanyo
MCH6601	30 / 30	0.2 / 0.2			10,4	15,4		7,5	1,43	0,8	SOT363	Sanyo
MCH6607	30 / 30	0.4 / 0.4			3,1	4,9		28	2	0,8	SOT363	Sanyo
MCH6629	30 / 30	0.4 / 0.4			1,9	2,8		40	0,83	0,8	SOT363	Sanyo
MCH6619	30 / 30	1 / 1	0,55		1			75	2,6	0,8	SOT363	Sanyo
MCH6605	50 / 50	0.14 / 0.14	22		32			6,2	1,32	0,8	SOT363	Sanyo
MCH6603	50 / 50	0.14 / 0.14			23	0,028		7,4	0,16	0,8	SOT363	Sanyo
MCH6611	50 / 50	0.28 / 0.28	6,1		9,1			23	1,68	0,8	SOT363	Sanyo
MCH6609	50 / 50	0.28 / 0.28			6,6	8,4		28	1,98	0,8	SOT363	Sanyo
<b>SOT23-6</b>												
UPA1950TE	12 / 12	2.5 / 2.5		0,13		0,205	0,375			0,57	SOT23-6	NEC
UPA1951TE	12 / 12	2.5 / 2.5		0,088		0,133	0,234			0,57	SOT23-6	NEC
CPH6601	20 / 20	1.5 / 1.5			0,235	0,34		290	3,2	0,9	SOT23-6	Sanyo
UPA1952TE	20 / 20	2 / 2		0,135		0,183	0,284			0,57	SOT23-6	NEC
CPH6603	30 / 30	1.5 / 1.5	0,25		0,46			185	4,7	0,9	SOT23-6	Sanyo
CPH6623	30 / 30	1.5 / 1.5	275		0,49			185	4,7	0,9	SOT23-6	Sanyo
<b>TSSOP8</b>												
FTD7003	12 / 12	6 / 6		0,025		0,04	0,06	2100	28	1,4	TSSOP8	Sanyo
FTD1011	20 / 20	3 / 3			0,065	0,096		1000	23	0,8	TSSOP8	Sanyo
FTD1028	20 / 20	3 / 3			0,077	0,113		900	9,3	0,8	TSSOP8	Sanyo
UPA1856GR	20 / 20	4.5 / 4.5		0,045	0,048	0,077				2	TSSOP8	NEC
UPA1858GR	20 / 20	5 / 5		0,0245	0,0255	0,038				2	TSSOP8	NEC
FTD1012	30 / 30	3 / 3	0,065		0,11			1000	19	0,8	TSSOP8	Sanyo
FTD1029	30 / 30	3 / 3	73		0,164			570	11,7	0,8	TSSOP8	Sanyo
<b>S08</b>												
UPA1750G	20 / 20	3.5 / 3.5	0,09		0,18					2	S08	NEC
FW111	20 / 20	5 / 5			0,058	0,098		980	30	1,7	S08	Sanyo
UPA1770G	20 / 20	6 / 6		0,037	0,039	0,059				2	S08	NEC
FW168	30 / 30	4 / 4	0,072		0,145			590	12,8	1,4	S08	Sanyo
FW169	30 / 30	6 / 6	0,038		0,073			1500	30	1,3	S08	Sanyo
FW163	30 / 30	7 / 7	0,25		0,045			2500	47	1,7	S08	Sanyo
UPA1772G	30 / 30	8 / 8	0,02	0,0295	0,034					2	S08	NEC
UPA1774G	60 / 60	2.8 / 2.8	0,25	0,3	0,33					0,8	S08	NEC
FW156	60 / 60	3.5 / 2.8	0,145		0,21			990	22	2	S08	Sanyo



Mosfet



N/P-Channel Low Power SMD

Type No.	Absolute maximum ratings / Electrical characteristics																PD [W]	Package	Manufacturer
	Ta=25°C																		
	Pch								Nch										
	VDSS [V]	ID [A]	PD [W]	RDS(on) [Ω]				Ciss [pF]	Qg [nC]	VDSS [V]	ID [A]	RDS(on) [Ω]				Ciss [pF]			
			VGS=10V [Ω]	VGS=4.5V [Ω]	VGS=4V [Ω]	VGS=2.5V [Ω]					VGS=10V [Ω]	VGS=4.5V [Ω]	VGS=4V [Ω]	VGS=2.5V [Ω]					

**SOT563**

SCH2602	12	1.5	0.6			0,31	0,47	160	2,6	30	0,35			3,7	5,2	7	1,58	0,6	SOT563	Sanyo
SCH2601	30	0,4	0,65			1,9	2,8	40	0,83	30	0,7			0,9	1,15	30	1	0,65	SOT563	Sanyo

**SOT363**

MCH6631	12	1,5	0,8			0,29	0,45	160	2,6	30	0,35			3,7	5,2	7	1,58	0,8	SOT363	Sanyo
MCH6632	12	1,5	0,8			0,305	0,465	160	2,6	20	1,6			0,245	0,325	105	1,4	0,8	SOT363	Sanyo
MCH6626	20	1	0,8			0,5	0,76	115	1,5	20	1,6			0,23	0,45	105	1,4	0,8	SOT363	Sanyo
MCH6628	20	1	0,8			0,5	0,76	115	1,5	30	0,35			3,7	5,2	7	1,58	0,8	SOT363	Sanyo
MCH6613	30	0,2	0,8			10,4	15,4	7,5	1,43	30	0,35			3,7	5,2	7	1,58	0,8	SOT363	Sanyo
MCH6614	30	0,4	0,8			3,1	4,9	28	2	30	0,35			3,7	5,2	7	1,58	0,8	SOT363	Sanyo
MCH6615	30	0,4	0,8			3,1	4,9	28	2	30	0,65			1,2	1,7	30	2,34	0,8	SOT363	Sanyo
MCH6634	30	0,4	0,8			1,9	2,8	40	0,83	30	0,7			0,9	1,15	30	1	0,8	SOT363	Sanyo
MCH6627	30	1	0,8	0,55		1		75	2,6	30	1,4	0,3		0,3		65	2,5	0,8	SOT363	Sanyo
MCH6644	30	1,2	0,8	0,42		0,83		104	3,3	30	1,8	0,21		0,21		95	3,2	0,8	SOT363	Sanyo
MCH6618	50	0,14	0,8	22		32		6,2	1,32	30	0,35	3,7		3,7		7	1,58	0,8	SOT363	Sanyo

**SOT23-5**

CPH5606	30	1	1,3	0,3		0,49		90	5	30	1,4	0,3		0,3		90	5	1,3	SOT23-5	Sanyo
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**SOT23-6**

CPH6619	12	2	0,8			0,165	5,2	310	4	30	0,4			3,7	5,2	7	4,6	0,8	SOT23-6	Sanyo
CPH6605	20	1,5	0,8			0,235	0,34	40	3,2	30	0,65			1,2	1,7	30	2,34	0,8	SOT23-6	Sanyo
CPH6610	30	0,4	0,8			1,8	2,8	40	0,83	30	1,4			0,32	0,58	65	2,5	0,8	SOT23-6	Sanyo
CPH6614	30	1,2	0,8	0,42		0,83		104	3,3	30	1,8	0,195		0,195		95	3,2	0,8	SOT23-6	Sanyo
CPH6615	30	1,8	0,9	0,235		0,45		226	5,5	30	2,5	0,105		0,105		187	5,2	0,9	SOT23-6	Sanyo

**TSSOP8**

UPA1890GR*	30	5	2	0,037	0,056	0,064		851	15	30	6	0,027	0,037	0,047		748	14	2	TSSOP8	NEC
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**S08**

UPA1793G*	20	3	1,7		0,115	0,12	0,19	370	3,4	20	3		0,069	0,072	0,107	160	3,1	1,7	S08	NEC
FW905	20	6	2,3			0,04	0,059	1720	18,4	20	7			0,024	0,033	1530	18,5	2,3	S08	Sanyo
FW341	30	2,5	1,4	0,145		0,34		200	5,5	30	3,5	0,084		0,084		180	5	1,4	S08	Sanyo
FW343	30	4	1,8	0,069		0,147		510	11	30	5	0,048		0,048		460	8,6	1,8	S08	Sanyo
FW344	30	4	1,4	0,078		0,147		510	11	30	3,5	0,084		0,084		180	5	1,4	S08	Sanyo
FW340	30	5	1,8	0,053		0,098		1000	16,5	30	5	0,048		0,048		460	8,6	1,8	S08	Sanyo
FW342	30	5	1,8	0,053		0,087		1000	16,5	30	6	0,033		0,033		850	16	1,8	S08	Sanyo
UPA2791GR*	30	5	1,7	0,082	0,11			325	8,5	30	5	0,036	0,05			640	9	1,7	S08	NEC
UPA2790GR*	30	6	1,7	0,06	0,08	0,11		500		30	6	0,028	0,04	0,053		460	12,6	1,7	S08	NEC
UPA2792GR*	30	10	1,7	0,018	0,026			2200	47	30	10	0,0125	0,021			2200	42	1,7	S08	NEC
UPA2793GR*	40	7	1,7	0,026	0,036			2200	45	40	7	0,015	0,023			2200	40	1,7	S08	NEC
UPA1790	60	1	1,7	0,6		1,1		230	7,6	60	0,7	0,26		0,34		180	8	1,7	S08	NEC
FW359	60	3	1,8	0,145		0,205		990	22	60	3	0,145		0,145		300	7,8	1,8	S08	Sanyo
FW356	60	3,5	2	0,145		0,21		990	22	60	5	0,058		0,058		790	16	2	S08	Sanyo
UPA2794GR*	60	5,5	1,7	0,043	0,054			2200	45	60	5,5	0,025	0,033			2200	41	1,7	S08	NEC
FW360	100	2	1,4	0,315		0,45		935	20	100	2	0,22		0,22		530	13	1,4	S08	Sanyo
FW307	250	0,7	1,7	4		-		160	-	250	1	1,6		1,6		160	-	1,7	S08	Sanyo



SOT563



SOT363



SOT23-5



SOT23-6



Mosfet



TSSOP8



S08



# Power Mosfet

## N-Channel SMD

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								

### T0252

UTP45N02L-TN3	20	45	-	0.022								T0252	UTC
UP9T15GL-TN3	20	12.5	-	0.050								T0252	UTC
2SK3638-Z	20	64	0.009		0.015							T0252	NEC
2SK3639-Z	20	64	0.006		0.009							T0252	NEC
UTN3055L-TN3	25	12	0.090	0.120								T0252	UTC
UT3055L-TN3	25	12	0.070	0.095								T0252	UTC
UT45N03L-TN3	25	40	0.021	-	0.080	1)						T0252	UTC
UT50N03L-TN3	25	45	0.014	-								T0252	UTC
UTM2513L-TN3	25	40	0.0130		0.023							T0252	UTC
UTN65A3L-TN3	25	45	0.012	0.018								T0252	UTC
UTD452L-TN3	25	55	0.0085	0.014								T0252	UTC
UK3919L-TN3	25	64	0.0056	0.0137								T0252	UTC
2SK4057-Z	25	30	0.015		0.025							T0252	NEC
2SK3991-Z	25	30	0.013	0.030								T0252	NEC
2SK4069-Z	25	30	0.012		0.021							T0252	NEC
2SK4058-Z	25	48	0.008		0.015							T0252	NEC
2SK3918-Z	25	48	0.008	0.022								T0252	NEC
2SK3919-Z	25	64	0.006	0.014								T0252	NEC
2SK3992-Z	25	64	0.005	0.011								T0252	NEC
2SK3993-Z	25	64	0.004	0.008								T0252	NEC
UTD410L-TN3	30	8	0.065	0.105								T0252	UTC
UT30N03L-TN3	30	30	0.030	0.045								T0252	UTC
UTD420L-TN3	30	10	0.028	0.042								T0252	UTC
UT40N03TL-TN3	30	28	0.025		0.045							T0252	UTC
UTD60N03L-TN3	30	30	0.023	0.030								T0252	UTC
UT20N03L-TN3	30	20	0.020	0.031								T0252	UTC
UTM3023L-TN3	30	30	0.020	0.028								T0252	UTC
UTD20N03L-TN3	30	30	0.020	0.031								T0252	UTC
UTD408L-TN3	30	18	0.018	0.027								T0252	UTC
UT40N03L-TN3	30	40	0.017	0.023								T0252	UTC
UTD484L-TN3	30	25	0.015	0.023								T0252	UTC
UT60T03L-TN3	30	45	0.012	0.025								T0252	UTC
UT60T03L-TN3	30	45	0.012		0.025							T0252	UTC
UD4809L-TN3	30	9	0.009	0.014								T0252	UTC
UT70N03L-TN3	30	60	0.009	0.018								T0252	UTC
UTD436L-TN3	30	60	0.0075	0.013								T0252	UTC
UT108N03L-TN3	30	75	0.006		0.0075							T0252	UTC
UT75N03L-TN3	30	75	0.004	0.006								T0252	UTC
NP90N03VUG*	30	90	0.0032				5000	90		1.43	105	T0252	NEC
2SK4067-TP-FA	30	8	0.115		0.22		260	6			10	T0252	SANYO
2SK3640-Z	30	19	0.021		0.04							T0252	NEC
2SK3366-Z	30	20	0.021		0.033	0.043						T0252	NEC
2SK3365-Z	30	30	0.014		0.021	0.029						T0252	NEC
2SK3641-Z	30	36	0.014		0.025							T0252	NEC
2SK4091-Z	30	30	0.013		21							T0252	NEC
2SK3642-Z	30	64	0.010		0.016							T0252	NEC
2SK3367-Z	30	36	0.009		0.012	0.014						T0252	NEC
2SK4080-Z	30	48	0.009		0.015							T0252	NEC
2SK4090-Z	30	64	0.006		0.011							T0252	NEC
2SK3643-Z	30	64	0.006		0.009							T0252	NEC
NP55N03SUG	30	55	0.005									T0252	NEC
UTD454L-TN3	40	12	0.033		0.047							T0252	UTC
NP90N04VLG*	40	90	0.006				4900	90				T0252	NEC
NP90N04VUG*	40	90	0.004				5000	90		1.43	105	T0252	NEC
NP90N04VDC*	40	90	0.004				4900	90				T0252	NEC
2SK4077-Z	40	20	0.02		0.035							T0252	NEC
2SK4076-Z	40	35	0.016		0.025							T0252	NEC
NP55N04SUG	40	55	0.007									T0252	NEC
2SK3716-Z	40	60	0.007		0.009							T0252	NEC
2SK4075-Z	40	60	0.007		0.01							T0252	NEC
2SK3813-Z	40	60	0.005		0.007							T0252	NEC
IXTY64N055T	55	64	0.0130				1420	37	30	1.15	130	T0252	IXYS
NP90N055VUG*	55	90	0.006				5000	90		1.43	105	T0252	NEC
NP90N055VDG*	55	90	0.006				4900	93				T0252	NEC
NP22N055SHE	55	22	0.039									T0252	NEC
NP22N055SLE	55	22	0.037	0.045	0.051							T0252	NEC
NP32N055SHE	55	32	0.025									T0252	NEC
NP32N055SLE	55	32	0.024	0.029	0.033							T0252	NEC
NP32N055SDE	55	32	0.024	0.029	0.033							T0252	NEC
NP34N055SHE	55	34	0.019									T0252	NEC
NP34N055SLE	55	34	0.018	0.022	0.024							T0252	NEC
NP36N055SHE	55	36	0.014									T0252	NEC
NP52N055SUG	55	52	0.014									T0252	NEC
NP36N055SLE	55	36	0.013	0.016	0.018							T0252	NEC
IXTY64N055T	55	64	0.013				1420	37	30	1.15	130	T0252	IXYS
NP55N055SDG	55	55	0.010		0.012							T0252	NEC
NP55N055SUG	55	55	0.01									T0252	NEC
IXTY12N06T	60	12	0.085				256	3.4	30	4.5	33	T0252	IXYS
50N06L-TN3	60	50	0.023									T0252	UTC
NP52N06SLG	60	52	0.0175		25		2100	39		2.68	56	T0252	NEC
NP90N06VLG*	60	90	0.0078				5000	95				T0252	NEC
2SK2415-Z	60	8	0.1			150						T0252	NEC
2SK2414-Z	60	10	0.07			95						T0252	NEC

T0252  
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Mosfet

N-Channel SMD

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
2SK3794-Z	60	20	0.044			78					T0252	NEC	
2SK3377-Z	60	20	0.044			78					T0252	NEC	
2SK3385-Z	60	30	0.028			45					T0252	NEC	
2SK3386-Z	60	34	0.021			36					T0252	NEC	
NP52N06SLG	60	52	0.018		0.025						T0252	NEC	
2SK3402-Z	60	36	0.015			22					T0252	NEC	
2SK3814-Z	60	60	0.009		0.011						T0252	NEC	
15N06L-TN3	60	15			0.100						T0252	UTC	
IXTY55N075T	75	55	0.0195				1400	33	50	1.15	130	IXYS	
IXTY55N075T	75	55	0.020				1400	33	50	1.15	130	IXYS	
IXTY50N085T	85	50	0.0230				1460	34	55	1.15	130	IXYS	
IXTY50N085T	85	50	0.023				1460	34	55	1.15	130	IXYS	
19N10L-TN3	100	15.6	0.100									UTC	
IXTY44N10T	100	44	0.0300				1262	33	100	1.15	130	IXYS	
2SK1284-Z	100	3	0.32			400						NEC	
2SK3484-Z	100	16	0.125		0.148							NEC	
2SK3984-Z	100	18	0.085									NEC	
2SK3483-Z	100	28	0.052		0.059							NEC	
2SK3482-Z	100	36	0.033		0.039							NEC	
IXTY44N10T	100	44	0.03				1262	33	100	1.15	130	IXYS	
2SK1954-Z	180	4	0.65									NEC	
UF630L-TN3	200	9	0.400									UTC	
UF640L-TN3	200	18	0.180									UTC	
2SK3634-Z	200	6	0.6									NEC	
2SK3978-TP-FA	200	4	0.55			0.64	950	21			20	SANYO	
2SK3979-TP-FA	200	6	0.45				1090	18.2			20	SANYO	
2SK3635-Z	200	8	0.43									NEC	
2SK3712-Z	250	9	0.58									NEC	
UF730L-TN3	400	6.5	1.000									UTC	
IXTY1R6N50P	500	1.6	6.5				140	3.9	400	2.9	43	IXYS	
IXTY5N50P	500	4.8	1.4				620	12.6	400	1.4	89	IXYS	
IXTY2R4N50P	500	2.4	3.75				240	6.1	400	2.25	55	IXYS	
UF830L-TN3	500	4.5	1.500									UTC	
IXTY1R6N50P	500	1.6	6.5				140	3.9	400	2.9	43	IXYS	
IXTY2R4N50P	500	2.4	3.75				240	6.1	400	2.25	55	IXYS	
IXTY3N50P	500	3.6	2				409	9.3	400	1.8	70	IXYS	
IXTY3N50P	500	3.6	2				409	9.3	400	1.8	70	IXYS	
IXTY5N50P	500	4.8	1.4				620	12.6	400	1.4	89	IXYS	
IXTY1R4N60P	600	1.4	9.0				140	5.2	500	2.5	50	IXYS	
IXTY3N60P	600	3	2.9				411	9.8	500	1.8	70	IXYS	
IXTY2N60P	600	2	5.1				240	7	400	2.25	55	IXYS	
1N60L-A-TN3	600	1.2	11.500									UTC	
2N60L-A-TN3	600	2	5.000									UTC	
3N60L-A-TN3	600	3	3.600									UTC	
4N60L-A-TN3	600	4	2.500									UTC	
2SK4070-Z	600	1	11									NEC	
IXTY1R4N60P	600	1.4	9				140	5.2	500	2.5	50	IXYS	
IXTY2N60P	600	2	5.1				240	7	400	2.25	55	IXYS	
2SK3113B-Z	600	2	4.4									NEC	
IXTY3N60P	600	3	2.9				411	9.8	500	1.8	70	IXYS	
1L60-B-TN3	650	1.2	11.500									UTC	
2N60L-B-TN3	650	2	5.000									UTC	
3N60L-B-TN3	650	3	3.600									UTC	
4N60L-B-TN3	650	4	2.500									UTC	
3N70L-TN3	700	3	4.000									UTC	
IXTY01N80	800	0.1	50				60	8	1500	3	25	IXYS	
IXTY1N80P	800	1	14				250	9.0	700	3.0	42	IXYS	
IXTY1N80	800	1	11				220	8.5	710	3.1	40	IXYS	
IXTY2N80P	800	2	6				440	10.6	650	1.8	70	IXYS	
IXTY2N100P	1000	2.0	7.5				655	24.3	800	1.450	86	IXYS	
IXTY01N100	1000	0.1	80				60	8	1500	3	25	IXYS	
IXTY08N100P	1000	0.80	20				240	11.3	750	3.0	42	IXYS	
IXTY05N100	1000	0.75	17				260	7.8	710	3.1	40	IXYS	
IXTY1N100P	1000	1.0	15				331	15.5	750	2.5	50	IXYS	
IXTY1R4N100P	1000	1.4	11				450	17.8	750	2	63	IXYS	

T0263

2SK3295-Z	20	35	0.018		0.027							T0263	NEC
2SK3570-Z	20	48	0.012		0.022							T0263	NEC
2SK3571-Z	20	48	0.009		0.016							T0263	NEC
2SK3572-Z	20	80	0.006		0.010							T0263	NEC
2SK3573-Z	20	83	0.004		0.006							T0263	NEC
2SK1889-SMP-FD	30	18	0.055			0.075	1000				50	T0263	SANYO
2SK1890-SMP-FD	30	22	0.04			0.055	1300				60	T0263	SANYO
2SK1891-SMP-FD	30	35	0.025			0.035	2000				70	T0263	SANYO
2SK2432-ZP	30	35	0.025			0.035	2000				50	T0263	SANYO
2SK3285-SMP-FD	30	40	0.023			0.034	1000	17			40	T0263	SANYO
2SK3352-SMP-FD	30	45	0.015			0.021	1400	28			40	T0263	SANYO
2SK3574-Z	30	48	0.014		0.024							T0263	NEC
2SK2464-ZP	30	45	0.012				2700				50	T0263	SANYO
NP80N03KDE	30	80	0.007	0.009	0.011							T0263	NEC
NP80N03KLE	30	80	0.007	0.009	0.011							T0263	NEC

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Mosfet



# Power Mosfet

## N-Channel SMD

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
NP60N03KUG	30	60	0,005								T0263	NEC	
2SK3575-Z	30	83	0,005			0,006					T0263	NEC	
NP82N03PUG	30	82	0,003								T0263	NEC	
NP88N03KDG	30	88	0,002			0,004					T0263	NEC	
NP88N03KUG	30	88	0,002								T0263	NEC	
NP110N03PUG	30	110	0,002								T0263	NEC	
IXTA100N04T2	40	100	0,007				2690	26. Mai	34	1.0	150	IXYS	
IXTA120N04T2	40	120	0,0061				3240	58	35	0.75	200	IXYS	
IXTA160N04T2	40	160	0,005				4640	79	40	0.60	250	IXYS	
NP90N04PUH	40	90	0,0038				5500	90		0.65	230	NEC	
IXTA220N04T2	40	220	0,0035				6820	112	45	0.42	360	IXYS	
NP90N04PDH	40	90	0,0034			0,006	7500	130		0.65	230	NEC	
NP100N04PUH	40	100	0,0031				6800	110		0.52	288	NEC	
NP100N04PDH	40	100	0,0029			0,0043	8700	165		0.52	288	NEC	
IXTA300N04T2	40	300	0,0025				10700	145	53	0.31	480	IXYS	
NP109N04PUJ*	40	110	0,0023				6900	120				NEC	
NP110N04PUJ*	40	110	0,0018				9500	150				NEC	
NP80N04KHE	40	80	0,008									NEC	
2SK3430-Z	40	80	0,007			0,015						NEC	
NP60N04KUG	40	60	0,006									NEC	
2SK3431-Z	40	83	0,006			0,009						NEC	
NP84N04KHE	40	84	0,005									NEC	
2SK3943-Z	40	82	0,004			0,006						NEC	
NP82N04PDG	40	82	0,004			0,008						NEC	
NP82N04PUG	40	82	0,004									NEC	
2SK3432-Z	40	83	0,004			0,007						NEC	
NP86N04KHE	40	86	0,004									NEC	
NP88N04KHE	40	88	0,004									NEC	
NP88N04KUG	40	88	0,003									NEC	
NP109N04PUG	40	110	0,002									NEC	
2SK3811-Z	40	110	0,002									NEC	
NP110N04PDG	40	110	0,002			0,003						NEC	
NP110N04PUG	40	110	0,002									NEC	
IXTA110N055P	55	110	0,0135				2210	76	80	0.38	390	IXYS	
IXTA90N055T	55	90	0,0088				2500	61	70	0.85	176	IXYS	
IXTA90N055T2	55	90	0,0084				2770	42	37	1.0	150	IXYS	
IXTA110N055T	55	110	0,0070				3080	67	70	0.65	230	IXYS	
IXTA110N055T2	55	110	0,0066				3060	57	38	0.820	180	IXYS	
IXTA140N055T2	55	140	0,0054				4760	82	40	0.60	250	IXYS	
NP90N055PUH	55	90	0,0054				6200	100		0.65	230	NEC	
NP90N055PDH	55	90	0,0051			0,0076	7800	135		0.65	230	NEC	
IXTA182N055T	55	182	0,0050				4850	114	70	0.42	360	IXYS	
NP100N055PUH	55	100	0,0045				7000	115		0.52	288	NEC	
NP100N055PDH	55	100	0,0044			0,0062	9500	170		0.52	288	NEC	
IXTA200N055T2	55	200	0,0042				6970	109	49	0.42	360	IXYS	
IXTA220N055T	55	220	0,0040				7200	158	70	0.35	430	IXYS	
IXTA240N055T	55	240	0,0036				7600	170	70	0.31	480	IXYS	
IXTA260N055T2	55	260	0,0033				10800	140	60	0.31	480	IXYS	
NP109N055PUJ*	55	110	0,0032				6900	120				NEC	
NP110N055PUJ*	55	110	0,0024				9500	150				NEC	
NP40N055KHE	55	40	0,023									NEC	
NP40N055KLE	55	40	0,023	0,028	0,032							NEC	
NP48N055KHE	55	48	0,017									NEC	
NP48N055KLE	55	48	0,017	0,021	0,024							NEC	
NP80N055KHE	55	80	0,011									NEC	
NP80N055KLE	55	80	0,011	0,013	0,015							NEC	
NP60N055KUG	55	60	0,009									NEC	
NP82N055KHE	55	82	0,009									NEC	
NP82N055KLE	55	82	0,008	0,011	0,012							NEC	
NP84N055KHE	55	84	0,007									NEC	
NP84N055KLE	55	84	0,007	0,009	0,010							NEC	
NP82N055PUG	55	82	0,005									NEC	
NP88N055KHE	55	88	0,005									NEC	
NP88N055KLE	55	88	0,005	0,007	0,007							NEC	
NP88N055KUG	55	88	0,004									NEC	
NP110N055PUG	55	110	0,002									NEC	
NP82N06PDG	60	82	0,0067				5700	106		1.05	143	NEC	
NP82N06PLG	60	82	0,0067				5700	106		1.05	143	NEC	
2SK1871-SMP-FD	60	15	0,08				750				40	SANYO	
2SK1898-SMP-FD	60	15	0,08			0,11	950				50	SANYO	
2SK1899-SMP-FD	60	18	0,07			0,095	1230				60	SANYO	
2SK3815-SMP-FD	60	23	0,055			0,085	775	19			40	SANYO	
2SK1900-SMP-FD	60	30	0,04			0,055	1900				70	SANYO	
2SK2433-ZP	60	30	0,04			0,055	1900				40	SANYO	
2SK3433-Z	60	40	0,026									NEC	
2SK3816-SMP-FD	60	40	0,026			0,04	1780	40			50	SANYO	
2SK3902-Z	60	60	0,021			0,026						NEC	
2SK3434-Z	60	48	0,02			0,031						NEC	
2SK3817-SMP-FD	60	60	0,015			0,022	3500	67			65	SANYO	
2SK3435-Z	60	80	0,014			0,022						NEC	
2SK3901-Z	60	60	0,013			0,017						NEC	

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Mosfet

N-Channel SMD

Type No.	Absolute maximum ratings / Electrical characteristics											Package	Manufacturer
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
2SK3818-SMP-FD	60	74	0.013			0.018	5250	100			75	TO263	SANYO
2SK3353-Z	60	82	0.010			0.014						TO263	NEC
2SK3900-Z	60	82	0.008		0.01							TO263	NEC
2SK3354-Z	60	83	0.008			0.012						TO263	NEC
<b>NP82N06PDG</b>	60	80	0.007	0.009								TO263	NEC
2SK3355-Z	60	83	0.006			0.009						TO263	NEC
2SK3899-Z	60	84	0.005		0.007							TO263	NEC
2SK4066-SMP-FD	60	100	0.005			0.007	12500	220			90	TO263	SANYO
2SK3812	60	110	0.003		0.004							TO263	NEC
IXTA130N065T2	65	130	0.0066				4800	79	41	0.60	250	TO263	IXYS
IXTA70N075T2	75	70	0.0120				2580	46	48	1.0	150	TO263	IXYS
IXTA76N075T	75	76	0.0120				2580	57	80	0.85	176	TO263	IXYS
IXTA98N075T	75	98	0.0100				3100	80	100	0.75	200	TO263	IXYS
IXTA90N075T2	75	90	0.01				3100	54	50	0.500	180	TO263	IXYS
IXTA120N075T2	75	120	0.0077				4740	78	50	0.60	250	TO263	IXYS
IXTA160N075T	75	160	0.0060				4950	112	80	0.42	360	TO263	IXYS
IXTA170N075T2	75	170	0.0054				6860	109	63	0.42	360	TO263	IXYS
IXTA200N075T	75	200	0.0050				6800	160	80	0.35	430	TO263	IXYS
IXTA220N075T	75	220	0.0045				7700	165	80	0.31	480	TO263	IXYS
IXFA230N075T2	75	230	0.0042				10500	178	59	0.31	480	TO263	IXYS
IXTA230N075T2	75	230	0.0042				10500	178	66	0.31	480	TO263	IXYS
2SK3511-Z	75	83	0.013									TO263	NEC
<b>NP84N075KUE</b>	75	84	0.013									TO263	NEC
2SK3510-Z	75	83	0.009									TO263	NEC
<b>NP88N075KUE</b>	75	88	0.009									TO263	NEC
2SK4065-SMP-FD	75	100	0.006			0.008	12200	220			90	TO263	SANYO
IXTA70N085T	85	70	0.0135				2570	59	90	0.85	176	TO263	IXYS
IXTA88N085T	85	88	0.0110				3140	69	90	0.65	230	TO263	IXYS
IXTA152N085T	85	152	0.0070				5500	114	90	0.42	360	TO263	IXYS
IXTA160N085T	85	160	0.006				6400	164	100	0.42	360	TO263	IXYS
IXTA180N085T	85	180	0.0055				8800	170	63	0.35	430	TO263	IXYS
IXTA200N085T	85	200	0.0050				7600	152	90	0.31	480	TO263	IXYS
IXTA75N10P	100	75	0.025				2250	74	120	0.42	360	TO263	IXYS
IXTA60N10T	100	60	0.0180				2650	49	59	0.85	176	TO263	IXYS
IXTA80N10T	100	80	0.0140				3040	60	100	0.65	230	TO263	IXYS
IXTA130N10T	100	130	0.0091				5080	104	67	0.42	360	TO263	IXYS
IXFA130N10T	100	130	0.0091				5080	104	67	0.42	360	TO263	IXYS
IXTA160N10T	100	160	0.0070				6600	132	60	0.35	430	TO263	IXYS
IXTA180N10T	100	180	0.0064				6900	151	72	0.31	480	TO263	IXYS
2SK1908-SMP-FD	100	15	0.135			0.18	1230				60	TO263	SANYO
2SK3819-SMP-FD	100	14	0.13			0.16	750	24			40	TO263	SANYO
2SK2775-ZP	100	25	0.08			0.11	1900				40	TO263	SANYO
2SK3820-SMP-FD	100	26	0.06			0.08	2150	44			50	TO263	SANYO
2SK3481-Z	100	30	0.05		0.058							TO263	NEC
2SK3821-SMP-FD	100	40	0.033			0.042	4200	73			65	TO263	SANYO
2SK3480-Z	100	50	0.031		0.036							TO263	NEC
2SK3822-SMP-FD	100	52	0.025			0.032	6250	117			75	TO263	SANYO
<b>NP70N10KUF</b>	100	70	0.02									TO263	NEC
2SK3479-Z	100	83	0.011		0.013							TO263	NEC
IXTA42N15T	150	42	0.045				1880	21	100	0.75	200	TO263	IXYS
IXTA62N15P	150	62	0.04				2250	70	150	0.42	350	TO263	IXYS
IXTA56N15T	150	56	0.036				2250	34	100	0.50	300	TO263	IXYS
IXTA90N15T	150	90	0.020				4100	80	110	0.33	455	TO263	IXYS
IXTA102N15T	150	102	0.018				5220	87	97	0.33	455	TO263	IXYS
IXFA102N15T	150	102	0.018				5220	87		0.33	455	TO263	IXYS
IXFA110N15T2	150	110	0.013				8600	150	85	0.31	480	TO263	IXYS
IXTA32N20T	200	32	0.072				1760	38	110	0.75	200	TO263	IXYS
IXTA50N20P	200	50	0.06				2720	70	150	0.42	360	TO263	IXYS
IXTA48N20T	200	48	0.050				3000	60	130	0.5	250	TO263	IXYS
IXTA86N20T	200	86	0.029				4500	90	140	0.31	480	TO263	IXYS
2SK3109-Z	200	10	0.4									TO263	NEC
2SK3111-Z	200	20	0.18									TO263	NEC
2SK2864-ZP	200	20	0.12				1700				50	TO263	SANYO
2SK3112-Z	200	25	0.11									TO263	NEC
IXTA42N25P	250	42	0.084				2300	70	200	0.42	300	TO263	IXYS
IXTA50N25T	250	50	0.050				4000	78	166	0.31	400	TO263	IXYS
IXTA76N25T	250	76	0.039				4500	92	148	0.27	460	TO263	IXYS
2SK2531-ZP	250	6	0.8				420				30	TO263	SANYO
2SK2532-ZP	250	10	0.39				900				40	TO263	SANYO
2SK2321-SMP-FD	250	12	0.35				1250				70	TO263	SANYO
2SK2592-SMP-FD	250	13	0.27				1290				60	TO263	SANYO
2SK2533-ZP	250	13	0.27				1290				45	TO263	SANYO
2SK2133-Z	250	16	0.26									TO263	NEC
2SK2534-ZP	250	16	0.18				1950				50	TO263	SANYO
2SK3294-Z	250	20	0.16									TO263	NEC
2SK3740-Z	250	20	0.16									TO263	NEC
IXTA50N28T	280	50	0.060				4070	87	180	0.37	340	TO263	IXYS
IXTA36N30P	300	36	0.11				2250	70	250	0.42	300	TO263	IXYS
2SK3284-ZP	400	10	0.55				1150	40			50	TO263	SANYO
2SK2403-SMP-FD	450	3	3.2				380				50	TO263	SANYO
2SK1690-SMP-FD	450	3	2.6				400				50	TO263	SANYO

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Mosfet

# Power Mosfet

## N-Channel SMD

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
2SK2404-SMP-FD	450	5	1.6				660				60	T0263	SANYO
2SK1691-SMP-FD	450	5	1.4				700				60	T0263	SANYO
2SK2434-ZP	450	5	1.4				700				40	T0263	SANYO
2SK2405-SMP-FD	450	10	0.75				1500				70	T0263	SANYO
IXTA8N50P	500	8	0.8				1050	20	400	0.83	150	T0263	IXYS
IXTA12N50P	500	12	0.5				1690	29	400	0.62	200	T0263	IXYS
IXFA12N50P	500	12	0.5				1830	29	200	0.62	200	T0263	IXYS
IXTA16N50P	500	16	0.4				2250	43	400	0.42	300	T0263	IXYS
IXFA16N50P	500	16	0.4				2250	43	200	0.42	300	T0263	IXYS
IXTA5N50P	500	4.8	1.4				620	12.6	400	1.4	89	T0263	IXYS
IXTA6N50P	500	6	1.1				740	14.6	400	1.25	100	T0263	IXYS
IXTA3N50P	500	3.6	2				409	9.3	400	1.8	70	T0263	IXYS
2SK2619-SMP-FD	500	6	1.25				700	20			70	T0263	SANYO
2SK3325B-Z	500	10	0.85									T0263	NEC
IXTA10N60P	600	10	0.74				1610	32	500	0.62	200	T0263	IXYS
IXFA10N60P	600	10	0.74				1610	32	200	0.62	200	T0263	IXYS
IXTA14N60P	600	14	0.55				2500	36	500	0.42	300	T0263	IXYS
IXFA14N60P	600	14	0.55				2500	36	200	0.42	300	T0263	IXYS
IXTA3N60P	600	3	2.9				411	9.8	500	1.8	70	T0263	IXYS
IXTA5N60P	600	5	1.7				750	14.2	500	1.25	100	T0263	IXYS
IXTA7N60P	600	7	1.1				1080	20	500	0.83	150	T0263	IXYS
2SK2919-ZP	600	2	4.3				400	-			35	T0263	SANYO
IXTA4N60P	600	4	2				635	13	500	1.41	89	T0263	IXYS
2SK3116B-Z	600	7.5	1.2									T0263	NEC
IXTA2N80	800	2	6.2				440	22	510	2.3	54	T0263	IXYS
IXFA10N80P	800	10	1.1				2300	40	250	0.42	300	T0263	IXYS
IXFA7N80P	800	7	1.44				1890	32	250	0.62	200	T0263	IXYS
IXTA1N80P	800	1	14				250	9.0	700	3.0	42	T0263	IXYS
IXTA1N80	800	1	11				220	8.5	710	3.1	40	T0263	IXYS
IXTA2N80P	800	2	6				440	10.6	650	1.8	70	T0263	IXYS
IXTA4N80P	800	3.5	3				750	15	600	1.25	100	T0263	IXYS
2SK1647	900	2	7								50	T0263	RENESAS
2SK1528	900	4	4								50	T0263	RENESAS
2SK2083-SMP-FD	900	5	3.6				700				70	T0263	SANYO
IXFA7N100P	1000	7	0.0018				2590	47	300	0.42	300	T0263	IXYS
IXTA3N100P	1000	3.0	4.8				1100	39	820	1.0	125	T0263	IXYS
IXTA2N100P	1000	2.0	7.5				655	24.3	800	1.450	86	T0263	IXYS
IXFA4N100P	1000	4	3.3				1456	26	300	0.83	150	T0263	IXYS
IXFA5N100P	1000	5	2.80				1830	33.4	200	0.50	250	T0263	IXYS
IXTA08N100P	1000	0.80	20				240	11.3	750	3.0	42	T0263	IXYS
IXTA05N100	1000	0.75	17				260	7.8	710	3.1	40	T0263	IXYS
IXTA1N100P	1000	1.0	15				331	15.5	750	2.5	50	T0263	IXYS
IXTA1R4N100P	1000	1.4	11				666	17.8	750	2.0	63	T0263	IXYS
IXTA1N100	1000	1.5	11				480	23	710	2.3	54	T0263	IXYS
IXFA4N100Q	1000	4	3				1050	39	250	0.8	156	T0263	IXYS
IXTA1R4N120P	1200	1.4	13.0				725	24.8	900	1.45	86	T0263	IXYS
IXTA3N120	1200	3	4.5				1050	39	700	0.8	150	T0263	IXYS
IXFA3N120	1200	3	4.5				1050	39	250	0.62	200	T0263	IXYS
IXTA2R4N120P	1200	2.4	7.50				1207	37.0	920	1.0	125	T0263	IXYS
IXTA06N120P	1200	0.60	32				236	13.3	900	3.0	42	T0263	IXYS
IXTA08N120P	1200	0.8	25				333	14.0	900	2.5	50	T0263	IXYS
IXTA1N120P	1200	1	20				445	17.6	900	2.0	63	T0263	IXYS

### T0263-7

IXTA220N04T2-7	40	220	0.0035				6820	112	45	0.42	360	T0263-7	IXYS
IXTA300N04T2-7	40	300	0.0025				10700	145	53	0.31	480	T0263-7	IXYS
<b>NP160N04TDG</b>	40	160	0.002		0.005							T0263-7	NEC
<b>NP160N04TUG</b>	40	160	0.002									T0263-7	NEC
<b>NP180N04TUG</b>	40	180	0.002									T0263-7	NEC
IXTA110N055T7	55	110	0.0070				3080	67	70	0.65	230	T0263-7	IXYS
IXTA182N055T7	55	182	0.0050				4850	114	70	0.42	360	T0263-7	IXYS
IXTA200N055T2-7	55	200	0.0042				6970	109	49	0.42	360	T0263-7	IXYS
IXTA220N055T7	55	220	0.0040				7200	158	70	0.35	430	T0263-7	IXYS
IXTA240N055T7	55	240	0.0036				7600	170	70	0.31	480	T0263-7	IXYS
IXTA260N055T2-7	55	260	0.0033				10800	140	60	0.31	480	T0263-7	IXYS
IXTA98N075T7	75	98	0.0100				3100	80	100	0.75	200	T0263-7	IXYS
IXTA160N075T7	75	160	0.0060				4950	112	80	0.42	360	T0263-7	IXYS
IXTA200N075T7	75	200	0.0050				6800	160	80	0.35	430	T0263-7	IXYS
IXTA220N075T7	75	220	0.0045				7700	165	80	0.31	480	T0263-7	IXYS
IXTA230N075T2-7	75	230	0.0042				10500	178	66	0.31	480	T0263-7	IXYS
IXTA88N085T7	85	88	0.0110				3140	69	90	0.65	230	T0263-7	IXYS
IXTA152N085T7	85	152	0.0070				5500	114	90	0.42	360	T0263-7	IXYS
IXTA180N085T7	85	180	0.0055				8800	170	63	0.35	430	T0263-7	IXYS
IXTA200N085T7	85	200	0.0050				7600	152	90	0.31	480	T0263-7	IXYS
IXTA80N10T7	100	80	0.0140				3040	60	100	0.65	230	T0263-7	IXYS
IXTA130N10T7	100	130	0.0091				5080	104	67	0.42	360	T0263-7	IXYS
IXTA160N10T7	100	160	0.0070				6600	132	100	0.35	430	T0263-7	IXYS
IXTA180N10T7	100	180	0.0064				6900	151	100	0.31	480	T0263-7	IXYS

T0263  
D2PAK



Mosfet

T0263-7



N-Channel SMD

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS [V]	ID [A]	RDS(on) Ω @				Ciss [pF]	Qg [nC]	trr [ns]	Rthjc [°C/W]			PD [W]
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max [Ω]			max [Ω]	max [Ω]	max [Ω]								

Plus220SMD

IXFV110N10PS	100	110	0.015			3550	110	150	0.31	480	Plus220SMD	IXYS
IXFV96N15PS	150	96	0.024			3500	110	200	0.31	480	Plus220SMD	IXYS
IXFV74N20PS	200	74	0.034			3300	107	200	0.31	480	Plus220SMD	IXYS
IXFV52N30PS	300	52	0.066			3490	110	200	0.31	400	Plus220SMD	IXYS
IXTV22N50PS	500	22	0.27			2630	50	400	0.35	350	Plus220SMD	IXYS
IXFV22N50PS	500	22	0.27			2630	50	200	0.35	350	Plus220SMD	IXYS
IXTV26N50PS	500	26	0.23			3600	65	300	0.31	400	Plus220SMD	IXYS
IXFV26N50PS	500	26	0.23			3600	60	200	0.31	400	Plus220SMD	IXYS
IXTV30N50PS	500	30	0.2			4150	70	400	0.27	460	Plus220SMD	IXYS
IXFV30N50PS	500	30	0.2			4150	70	200	0.27	460	Plus220SMD	IXYS
IXTV36N50PS	500	36	0.17			4700	82	400	0.23	540	Plus220SMD	IXYS
IXFV36N50PS	500	36	0.17			5500	93	200	0.23	540	Plus220SMD	IXYS
IXTV18N60PS	600	18	0.42			2500	49	500	0.35	360	Plus220SMD	IXYS
IXFV18N60PS	600	18	0.4			2500	50	200	0.35	360	Plus220SMD	IXYS
IXTV22N60PS	600	22	0.35			3600	62	500	0.31	400	Plus220SMD	IXYS
IXFV22N60PS	600	22	0.35			3600	58	200	0.31	400	Plus220SMD	IXYS
IXTV26N60PS	600	26	0.27			4150	72	500	0.27	460	Plus220SMD	IXYS
IXFV26N60PS	600	26	0.27			4150	72	200	0.27	460	Plus220SMD	IXYS
IXTV30N60PS	600	30	0.24			5050	82	500	0.23	540	Plus220SMD	IXYS
IXFV30N60PS	600	30	0.24			4000	82	200	0.25	500	Plus220SMD	IXYS
IXFV12N80PS	800	12	0.85			2800	51	250	0.35	360	Plus220SMD	IXYS
IXFV14N80PS	800	14	0.72			3900	61	250	0.31	400	Plus220SMD	IXYS
IXFV16N80PS	800	16	0.6			4000	70	250	0.27	460	Plus220SMD	IXYS
IXFV20N80PS	800	20	0.52			4685	86	250	0.25	500	Plus220SMD	IXYS
IXFV12N90PS	900	12	0.90			3080	56	300	0.33	380	Plus220SMD	IXYS
IXFV180N90PS	900	18	0.60			5230	97	300	0.23	540	Plus220SMD	IXYS
IXFV18N90PS	900	18	0.60			5230	97	300	0.23	540	Plus220SMD	IXYS
IXFV15N100PS	1000	15	0.76			5140	97	300	0.230	543	Plus220SMD	IXYS
IXFV12N100PS	1000	12	1.05			4080	80	300	0.27	463	Plus220SMD	IXYS
IXFV12N120PS	1200	12	1.3500			6500	103	300	0.230	543	Plus220SMD	IXYS
IXTV280N055TS	55	280	0.0032			9800	200	70	0.27	550	Plus220 SMD	IXYS
IXUV170N075S	75	175	0.0053				310	120	0.5	300	Plus220 SMD	IXYS
IXTV250N075TS	75	250	0.0040			9900	200	80	0.27	550	Plus220 SMD	IXYS
IXTV230N85TS	85	230	0.0044			9900	187	90	0.27	550	Plus220 SMD	IXYS
IXTV200N10TS	100	200	0.0055			9400	152	76	0.27	550	Plus220 SMD	IXYS
IXTV110N25TS	250	110	0.024			9400	157	170	0.18	694	Plus220 SMD	IXYS
IXFV110N25TS	250	110	0.024			9400	157	170	0.18	694	Plus220 SMD	IXYS

PLUS220 SMD



Mosfet

T0268

IXTT110N10P	100	110	0.015			3550	110	130	0.31	480	T0268	IXYS
IXTT140N10P	100	140	0.011			4700	155	120	0.25	600	T0268	IXYS
IXFT140N10P	100	140	0.011			4700	155	150	0.25	600	T0268	IXYS
IXTT170N10P	100	170	0.009			6000	198	120	0.21	714	T0268	IXYS
IXTT96N15P	150	96	0.024			3500	110	150	0.31	480	T0268	IXYS
IXTT120N15P	150	120	0.016			4900	150	150	0.25	600	T0268	IXYS
IXFT120N15P	150	120	0.016			4900	150	200	0.25	600	T0268	IXYS
IXFT60N20F	200	60	0.038			2930	100	200	0.39	320	T0268	IXYS
IXTT74N20P	200	74	0.034			3300	107	160	0.31	480	T0268	IXYS
IXTT96N20P	200	96	0.024			4800	145	160	0.25	600	T0268	IXYS
IXFT96N20P	200	96	0.024			4800	145	200	0.25	600	T0268	IXYS
IXTT64N25P	250	64	0.049			3450	105	200	0.31	400	T0268	IXYS
IXTT82N25P	250	82	0.035			4800	142	200	0.25	500	T0268	IXYS
IXTT100N25P	250	100	0.027			6300	185	200	0.21	600	T0268	IXYS
IXTT52N30P	300	52	0.066			3490	110	250	0.31	400	T0268	IXYS
IXFT52N30Q	300	52	0.06			5300	150	250	0.35	357	T0268	IXYS
IXTT69N30P	300	69	0.049			4960	156	250	0.25	500	T0268	IXYS
IXFT69N30P	300	69	0.049			4960	156	200	0.25	500	T0268	IXYS
IXTT88N30P	300	88	0.04			6300	180	250	0.21	600	T0268	IXYS
IXFT21N50F	500	21	0.25			2600	77	250	0.42	300	T0268	IXYS
IXTT26N50P	500	26	0.23			3600	65	300	0.31	400	T0268	IXYS
IXTT30N50P	500	30	0.2			4150	70	400	0.27	460	T0268	IXYS
IXFT30N50P	500	30	0.2			4150	70	200	0.27	460	T0268	IXYS
IXFT28N50F	500	28	0.190			3000	95	250	0.39	315	T0268	IXYS
IXTT36N50P	500	36	0.17			4700	82	400	0.23	540	T0268	IXYS
IXFT36N50P	500	36	0.17			5500	93	200	0.23	540	T0268	IXYS
IXFT44N50P	500	44	0.14			5440	98	200	0.19	650	T0268	IXYS
IXTT26N60P	600	26	0.27			4150	72	500	0.27	460	T0268	IXYS
IXFT26N60P	600	26	0.27			4150	72	200	0.27	460	T0268	IXYS
IXTT30N60P	600	30	0.24			5050	82	500	0.23	540	T0268	IXYS
IXFT30N60P	600	30	0.24			4000	82	200	0.25	500	T0268	IXYS
IXFT36N60P	600	36	0.19			5800	102	200	0.19	650	T0268	IXYS
IXFT14N80P	800	14	0.72			3900	61	250	0.31	400	T0268	IXYS
IXFT16N80P	800	16	0.6			4000	70	250	0.27	460	T0268	IXYS
IXFT20N80P	800	20	0.52			4685	86	250	0.25	500	T0268	IXYS
IXFT24N80P	800	24	0.4			5800	100	250	0.19	650	T0268	IXYS
IXFT24N90P	900	24	0.420			7200	130	300	0.19	660	T0268	IXYS
IXFT20N100P	1000	20	0.5700			7300	126	300	0.190	660	T0268	IXYS
IXFT6N100F	1000	6	1.9			1770	54	250	0.65	180	T0268	IXYS
IXFT12N100F	1000	12	1.05			2700	77	250	0.42	300	T0268	IXYS
IXTT1N100	1000	1.5	11			480	23	710	2.3	60	T0268	IXYS
IXFT4N100Q	1000	4	3			1050	39	250	0.8	156	T0268	IXYS
IXFT16N120P	1200	16	0.95			6900	120	300	0.190	660	T0268	IXYS
IXTT6N120	1200	6	2.4			1950	56	850	0.42	300	T0268	IXYS

T0268



# Power Mosfet

## N-Channel leaded

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			

### TO251

2SK3281-TP*	20	15				0,022	1950	60				20	TO251	SANYO
2SK4057	25	30	0,015			0,025							TO251	NEC
2SK3991	25	30	0,013	0,030									TO251	NEC
2SK4069	25	30	0,012			0,021							TO251	NEC
2SK4058	25	48	0,008			0,015							TO251	NEC
2SK3918	25	48	0,008	0,022									TO251	NEC
2SK3919	25	64	0,006	0,014									TO251	NEC
2SK3992	25	64	0,005	0,011									TO251	NEC
2SK3993	25	64	0,004	0,008									TO251	NEC
2SK4067-TP	30	8	0,115			0,22	260	6				10	TO251	SANYO
2SK3278-TP	30	15	0,036			0,056	530	10				15	TO251	SANYO
2SK3279-TP	30	15	0,029			0,042	750	14				20	TO251	SANYO
2SK3283-TP	30	15	0,023			0,035	1550	40				20	TO251	SANYO
2SK3366	30	20	0,021			0,033							TO251	NEC
2SK3280-TP	30	20	0,02			0,031	1000	17				30	TO251	SANYO
2SK3351-TP	30	30	0,015			0,021	1450	28				30	TO251	SANYO
2SK3365	30	30	0,014			0,021							TO251	NEC
2SK4091	30	30	0,013			0,021							TO251	NEC
2SK3367	30	36	0,009			0,012							TO251	NEC
2SK4080	30	48	0,009			0,015							TO251	NEC
2SK4090	30	64	0,006			0,011							TO251	NEC
2SK3282-TP	30	15				0,025	1550	60				20	TO251	SANYO
2SK3716	40	60	0,007			0,009							TO251	NEC
2SK3813	40	60	0,005			0,007							TO251	NEC
NP32N055HDE	55	32	0,024			0,033	1300	27			2.27	66	TO251	NEC
NP22N055HHE	55	22	0,039										TO251	NEC
NP22N055HLE	55	22	0,037	0,045		0,051							TO251	NEC
NP32N055HHE	55	32	0,025	0,029									TO251	NEC
NP32N055HLE	55	32	0,024			0,033							TO251	NEC
NP34N055HHE	55	34	0,019										TO251	NEC
NP34N055HLE	55	34	0,018	0,022		0,024							TO251	NEC
NP36N055HHE	55	36	0,014										TO251	NEC
NP36N055HLE	55	36	0,013	0,016		0,018							TO251	NEC
IXTU12N06T	60	12	0,085				256	3.4	30		4.5	33	TO251	IXYS
2SK2414	60	10	0,7			0,95							TO251	NEC
2SK3492-TP	60	8	0,15			0,22	300	7.8				15	TO251	SANYO
2SK2415	60	8	0,1			0,15							TO251	NEC
2SK3615-TP	60	12	0,06			0,085	790	16				20	TO251	SANYO
2SK3377	60	20	0,044			0,078							TO251	NEC
2SK3794	60	20	0,044			0,078							TO251	NEC
2SK3385	60	30	0,028			0,045							TO251	NEC
2SK3386	60	34	0,021			0,036							TO251	NEC
2SK3402	60	36	0,015			0,022							TO251	NEC
2SK3814	60	60	0,009			0,011							TO251	NEC
2SK1284	100	3	0,32			0,4							TO251	NEC
2SK3617-TP	100	6	0,225			0,315	530	13				15	TO251	SANYO
2SK3618-TP	100	8	0,13			0,18	880	24				20	TO251	SANYO
2SK3484	100	16	0,125			0,148							TO251	NEC
2SK3483	100	28	0,052			0,059							TO251	NEC
2SK3482	100	36	0,033			0,039							TO251	NEC
2SK1954	180	4	0,65										TO251	NEC
2SK3634	200	6	0,6										TO251	NEC
2SK3978-TP	200	4	0,55			0,64	950	21				20	TO251	SANYO
2SK3979-TP	200	6	0,45				1090	18,2				20	TO251	SANYO
2SK3635	200	8	0,43										TO251	NEC
2SK2199-TP	250	0,8	5				80					15	TO251	SANYO
2SK2530-TP	250	2	2				160					20	TO251	SANYO
2SK1920-TP	250	4	0,7				420					30	TO251	SANYO
2SK3712	250	9	0,58										TO251	NEC
2SK3092-TP	400	3	2,3				360	10				30	TO251	SANYO
2SK2406-TP	450	1	4,5				300					30	TO251	SANYO
IXTU5N50P	500	4.8	1.4				620	12.6	400		1.4	89	TO251	IXYS
2SK2616-TP	500	2	4				300	8				30	TO251	SANYO
IXTU1R4N60P	600	1.4	9.0				140	5.2	500		2.5	50	TO251	IXYS
1N60L-A-TM3	600	1.2	11.500										TO251	UTC
2N60L-A-TM3	600	2	5.000										TO251	UTC
4N60L-A-TM3	600	4	2.500										TO251	UTC
2SK3850-TP	600	0,7	18,5				96	4				15	TO251	Sanyo
2SK3491-TP	600	1	11				135	6				20	TO251	Sanyo
2SK4070	600	1	11										TO251	NEC
2SK2623-TP	600	1,5	5,5				300	8				30	TO251	Sanyo
2SK3113B	600	2	4,4										TO251	NEC
1L60-B-TM3	650	1.2	11.500										TO251	UTC
2N60L-B-TM3	650	2	5.000										TO251	UTC
4N60L-B-TM3	650	4	2.500										TO251	UTC
IXTU01N80	800	0.1	50				60	8	1500		3	25	TO251	IXYS
IXTU1N80P	800	1	14				250	9.0	700		3.0	42	TO251	IXYS
2SK2631-TP	800	1	10				300	8				30	TO251	Sanyo
IXTU2N80P	800	2	6				440	10.6	650		1.8	70	TO251	IXYS
IXTU01N100	1000	0.1	80				60	8	1500		3	25	TO251	IXYS
IXTU05N100	1000	0.75	17				260	7.8	710		3.1	40	TO251	IXYS



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N-Channel leaved

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								

**T0262**

NP80N03NLE	30	80	0.007		0.011		2600	48		1.25	120	T0262	NEC
NP80N03NDE	30	80	0.007		0.011		2600	48		1.25	120	T0262	NEC
NP90N04NDH	40	90	0.0038		0.0064		7500	130		0.65	230	T0262	NEC
NP90N04NUH	40	90	0.0041				5500	90		0.65	230	T0262	NEC
NP100N04NDH	40	100	0.0033		0.0047		8700	165		0.52	288	T0262	NEC
NP100N04NUH	40	100	0.0035				6800	110		0.52	288	T0262	NEC
NP90N055NDH	55	90	0.0055		0.008		7800	135		0.65	230	T0220	NEC
NP90N055NUH	55	90	0.0058				6200	100		0.65	230	T0220	NEC
NP100N055NDH	55	100	0.0048		0.0066		9500	170		0.52	288	T0220	NEC
NP100N055NUH	55	100	0.0049				7000	115		0.52	288	T0220	NEC
2SK3295-S	20	35	0.018		0.027							T0262	NEC
2SK1889-SMP	30	18	0.055			0.075	1000				50	T0262	Sanyo
2SK1891-SMP	30	35	0.025			0.035	2000				70	T0262	Sanyo
2SK3285-SMP	30	40	0.023			0.034	1000	17			40	T0262	Sanyo
2SK3352-SMP	30	45	0.015			0.021	1400	28			40	T0262	Sanyo
NP80N03NLE	30	80	0.007	0.009	0.011							T0262	NEC
2SK3430-S	40	80	0.007			0.015						T0262	NEC
NP80N04NHE	40	80	0.008									T0262	NEC
2SK3431-S	40	83	0.006			0.009						T0262	NEC
2SK3432-S	40	83	0.004			0.007						T0262	NEC
NP84N04NHE	40	84	0.005									T0262	NEC
NP86N04NHE	40	86	0.004									T0262	NEC
NP88N04NHE	40	88	0.004									T0262	NEC
NP88N04NUG	40	88	0.003									T0262	NEC
NP40N055NHE	55	40	0.023									T0262	NEC
NP40N055NLE	55	40	0.023	0.028	0.032							T0262	NEC
NP48N055NHE	55	48	0.017									T0262	NEC
NP48N055NLE	55	48	0.017	0.021	0.024							T0262	NEC
NP80N055NHE	55	80	0.011									T0262	NEC
NP80N055NLE	55	80	0.011	0.013	0.015							T0262	NEC
NP82N055NHE	55	82	0.009									T0262	NEC
NP82N055NLE	55	82	0.008	0.011	0.012							T0262	NEC
NP84N055NHE	55	84	0.007									T0262	NEC
NP84N055NLE	55	84	0.007	0.009	0.009							T0262	NEC
NP88N055NHE	55	88	0.005									T0262	NEC
NP88N055NLE	55	88	0.005	0.006	0.007							T0262	NEC
2SK1871	60	15	0.08				750				40	T0262	Sanyo
2SK1898-SMP	60	15	0.08			0.11	950				50	T0262	Sanyo
2SK3815-SMP	60	23	0.055			0.085	775	19			40	T0262	Sanyo
2SK1900-SMP	60	30	0.04			0.055	1900				70	T0262	Sanyo
2SK3433-S	60	40	0.026			0.041						T0262	NEC
2SK3816-SMP	60	40	0.026			0.04	1780	40			50	T0262	Sanyo
2SK3434-S	60	48	0.02			0.031						T0262	NEC
2SK3817-SMP	60	60	0.015			0.022	3500	67			65	T0262	Sanyo
2SK3818-SMP	60	74	0.013			0.018	5250	100			75	T0262	Sanyo
2SK3435-S	60	80	0.014			0.022						T0262	NEC
2SK3353-S	60	82	0.010			0.014						T0262	NEC
2SK3354-S	60	83	0.008			0.012						T0262	NEC
2SK3355-S	60	83	0.006			0.009						T0262	NEC
2SK4066-SMP	60	100	0.005			0.007	12500	220			90	T0262	Sanyo
2SK3510-S	75	83	0.009									T0262	NEC
2SK3511-S	75	83	0.013									T0262	NEC
NP84N075NUE	75	84	0.013									T0262	NEC
NP88N075NUE	75	88	0.009									T0262	NEC
2SK4065-SMP	75	100	0.006			0.008	12200	220			90	T0262	Sanyo
2SK1741-SMP	100	10	0.16				750				40	T0262	Sanyo
2SK3819-SMP	100	14	0.13			0.16	750	24			40	T0262	Sanyo
2SK3820-SMP	100	26	0.06			0.08	2150	44			50	T0262	Sanyo
2SK1813-SMP	100	30	0.055				2400				70	T0262	Sanyo
2SK3481-S	100	30	0.05		0.058							T0262	NEC
2SK3821-SMP	100	40	0.033			0.042	4200	73			65	T0262	Sanyo
2SK3480-S	100	50	0.031		0.036							T0262	NEC
2SK3822-SMP	100	52	0.025			0.032	6250	117			75	T0262	Sanyo
2SK3479-S	100	83	0.011		0.013							T0262	NEC
2SK3109-S	200	10	0.4									T0262	NEC
2SK3111-S	200	20	0.18									T0262	NEC
2SK3112-S	200	25	0.11									T0262	NEC
2SK2321-SMP	250	12	0.35				1250				70	T0262	Sanyo
2SK2592-SMP	250	13	0.27				1290				60	T0262	Sanyo
2SK2133-S	250	16	0.26									T0262	NEC
2SK3294-S	250	20	0.16									T0262	NEC
2SK1690-SMP	450	3	2.6				400				50	T0262	Sanyo
2SK2403-SMP	450	3	3.2				380				50	T0262	Sanyo
2SK1691-SMP	450	5	1.4				700				60	T0262	Sanyo
2SK2404-SMP	450	5	1.6				660				60	T0262	Sanyo
2SK2405-SMP	450	10	0.75				1500				70	T0262	Sanyo
2SK2619-SMP	500	6	1.25				700	20			70	T0262	Sanyo
2SK1647	900	2	7								50	T0262	Renesas
2SK1528	900	4	4								50	T0262	Renesas
IXT176N25T	250	76	0.039				4500	92	148	0.27	460	T0262	IXYS
IXT112N50P	500	12	0.5				1830	29	400	0.62	200	T0262	IXYS
IXT110N60P	600	10	0.74				1610	32	500	0.62	200	T0262	IXYS

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T0262  
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Mosfet

TO 220





# Power Mosfet

## N-Channel leaded

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc		
[V]	[A]	VGS = 10V max [Ω]	VGS = 5V max [Ω]	VGS = 4.5V max [Ω]	VGS = 4.0V max [Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]		

### TO220

2SK3295	20	35	0,018			0,027							TO220	NEC
2SK3570	20	48	0,012			0,022							TO220	NEC
2SK3571	20	48	0,009			0,016							TO220	NEC
2SK3572	20	80	0,0057			0,0099							TO220	NEC
2SK3573	20	83	0,004			0,006							TO220	NEC
NP80N03MDE	30	80	0,007			0,011	2600	48		1.25	120		TO220	NEC
UT75N03L-TA3	30	75	0,004			0,006							TO220	UTC
2SK1883	30	18	0,055			0,075	1000	-			50		TO220	Sanyo
2SK1884	30	22	0,04			0,055	1300	-			60		TO220	Sanyo
2SK1885	30	35	0,025			0,035	2000	-			70		TO220	Sanyo
2SK3574	30	48	0,0135			0,024							TO220	NEC
NP80N03MLE	30	80	0,007	0,009		0,011							TO220	NEC
2SK3575	30	83	0,0045			0,0064							TO220	NEC
NP90N04MUH	40	90	0,0041				5500	90		0.65	230		TO220	NEC
NP90N04MDH	40	90	0,0038			0,0064	7500	130		0.65	230		TO220	NEC
NP100N04MUH	40	100	0,0035				6800	110		0.52	288		TO220	NEC
NP100N04MDH	40	100	0,0033			0,0047	8700	165		0.52	288		TO220	NEC
NP80N04MHE	40	80	0,008										TO220	NEC
2SK3430	40	80	0,0073			0,015							TO220	NEC
NP60N04MUG	40	60	0,0063										TO220	NEC
2SK3431	40	83	0,0056			0,0089							TO220	NEC
NP84N04MHE	40	84	0,0052										TO220	NEC
NP70N04MUG	40	70	0,005										TO220	NEC
NP86N04MHE	40	86	0,0044										TO220	NEC
NP88N04MHE	40	88	0,0043										TO220	NEC
2SK3432	40	83	0,004			0,0069							TO220	NEC
NP90N04MUG	40	90	0,003										TO220	NEC
NP90N05MUH	55	90	0,0058				6200	100		0.65	230		TO220	NEC
NP90N05MDH	55	90	0,0055			0,008	7800	135		0.65	230		TO220	NEC
NP100N05MUH	55	100	0,0049				7000	115		0.52	288		TO220	NEC
NP100N05MDH	55	100	0,0048			0,0066	9500	170		0.52	288		TO220	NEC
NP40N05MHE	55	40	0,023										TO220	NEC
NP40N05MLE	55	40	0,023	0,028		0,032							TO220	NEC
NP48N05MHE	55	48	0,017	0,021									TO220	NEC
NP48N05MLE	55	48	0,017			0,024							TO220	NEC
NP80N05MHE	55	80	0,011										TO220	NEC
NP80N05MLE	55	80	0,011	0,013		0,015							TO220	NEC
NP82N05MHE	55	82	0,0086										TO220	NEC
NP82N05MLE	55	82	0,0084	0,011		0,012							TO220	NEC
NP84N05MHE	55	84	0,0073										TO220	NEC
NP84N05MLE	55	84	0,007	0,0087		0,0094							TO220	NEC
NP88N05MHE	55	88	0,0053										TO220	NEC
NP88N05MLE	55	88	0,0052	0,0063		0,0068							TO220	NEC
15N06L-TA3	60	15	0,100										TO220	UTC
30N06L-TA3	60	30	0,040										TO220	UTC
50N06L-TA3	60	50	0,023										TO220	UTC
60N06L-TA3	60	60	0,018										TO220	UTC
2SK1892	60	15	0,08			0,11	950	-			50		TO220	Sanyo
2SK1893	60	18	0,07			0,095	1230	-			60		TO220	Sanyo
2SK1894	60	30	0,04			0,055	1900	-			70		TO220	Sanyo
2SK3433	60	40	0,026			0,041							TO220	NEC
2SK3823	60	40	0,026			0,04	1780	40			45		TO220	Sanyo
2SK3434	60	48	0,02			0,031							TO220	NEC
2SK3824	60	60	0,015			0,022	3500	67			60		TO220	Sanyo
2SK3435	60	80	0,014			0,022							TO220	NEC
2SK3825	60	74	0,013			0,018	5250	113			75		TO220	Sanyo
2SK3353	60	82	0,0095			0,014							TO220	NEC
2SK3354	60	83	0,008			0,012							TO220	NEC
2SK3355	60	83	0,0058			0,0088							TO220	NEC
2SK3511	75	83	0,0125										TO220	NEC
NP84N075MUE	75	84	0,0125										TO220	NEC
2SK3510	75	83	0,0085										TO220	NEC
NP88N075MUE	75	88	0,0085										TO220	NEC
2SK1901	100	12	0,16			0,22	950	-			50		TO220	Sanyo
2SK1902	100	15	0,135			0,18	1230	-			60		TO220	Sanyo
2SK1903	100	25	0,08			0,11	1900	-			70		TO220	Sanyo
2SK3826	100	26	0,06			0,08	2150	42			45		TO220	Sanyo
2SK3481	100	30	0,05			0,058							TO220	NEC
2SK3827	100	40	0,033			0,042	4200	79			60		TO220	Sanyo
2SK3480	100	50	0,031			0,036							TO220	NEC
2SK3828	100	52	0,025			0,032	6250	117			75		TO220	Sanyo
2SK3479	100	83	0,011			0,013							TO220	NEC
UF630L-TA3	200	9	0,400										TO220	UTC
UF640L-TA3	200	18	0,180										TO220	UTC
2SK3109	200	10	0,4										TO220	NEC
2SK3111	200	20	0,18										TO220	NEC
2SK3112	200	25	0,11										TO220	NEC
UF634L-TA3	250	8.1	0,450										TO220	UTC
2SK1921	250	4	0,7				600				50		TO220	Sanyo
2SK2142	250	12	0,35				1250				70		TO220	Sanyo
2SK2133	250	16	0,26										TO220	NEC
2SK3294	250	20	0,16										TO220	NEC
UF740L-TA3	400	10	0,550				-						TO220	UTC
11N40L-TA3	400	11.4	0,480				-						TO220	UTC
UF730L-TA3	400	6.5	1,000										TO220	UTC

Bold printed = AECQ101 Automotive

N-Channel leaded

Type No.	Absolute maximum ratings / Electrical characteristics											Package	Manufacturer
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
6N40L-TA3	400	6	1.000									TO220	UTC
2SK3096	400	7	0.87				860	27			70	TO220	Sanyo
2SK3098	400	12	0.55				1150	40			85	TO220	Sanyo
2SK3100	400	16	0.4				1850	58			90	TO220	Sanyo
2SK1439	450	3	2.6				400				50	TO220	Sanyo
2SK1440	450	5	1.4				700				60	TO220	Sanyo
2SK1438	450	0.3	1.2				90				20	TO220	Sanyo
2SK1441	450	8	0.8				1200				70	TO220	Sanyo
2SK2407	450	10	0.7				1200				70	TO220	Sanyo
2SK1442	450	12	0.6				1600				70	TO220	Sanyo
UF840L-TA3	500	8	0.850				-					TO220	UTC
UF830L-TA3	500	4.5	1.500				-					TO220	UTC
2SK3305B	500	5	1.5									TO220	NEC
2SK3325B	500	10	0.85									TO220	NEC
10N60L-A-TA3	600	9.5	0.730				-					TO220	UTC
12N60L-A-TA3	600	12	0.700				-					TO220	UTC
1N60L-A-TA3	600	1.2	11.500				-					TO220	UTC
2N60L-A-TA3	600	2	5.000				-					TO220	UTC
3N60L-A-TA3	600	3	3.600				-					TO220	UTC
4N60L-A-TA3	600	4	2.500				-					TO220	UTC
5N60L-A-TA3	600	4.5	2.500				-					TO220	UTC
6N60L-A-TA3	600	6.2	1.500				-					TO220	UTC
7N60AL-A-TA3	600	7	1.200				-					TO220	UTC
8N60L-A-TA3	600	7.5	1.200				-					TO220	UTC
7N60L-A-TA3	600	7.4	1.000				-					TO220	UTC
UK2996L-TA3	600	10	1.000				-					TO220	UTC
2SK3299B	600	10	750				-					TO220	NEC
2SK3116B	600	7.5	1.2				-					TO220	NEC
10N60L-B-TA3	650	9.5	0.730				-					TO220	UTC
12N60L-B-TA3	650	12	0.700				-					TO220	UTC
1N60L-B-TA3	650	1.2	11.500				-					TO220	UTC
2N60L-B-TA3	650	2	5.000				-					TO220	UTC
3N60L-B-TA3	650	3	3.600				-					TO220	UTC
4N60L-B-TA3	650	4	2.500				-					TO220	UTC
5N60L-B-TA3	650	4.5	2.500				-					TO220	UTC
6N60L-B-TA3	650	6.2	1.500				-					TO220	UTC
7N65L-TA3	650	7	1.350				-					TO220	UTC
7N60AL-B-TA3	650	7	1.200				-					TO220	UTC
8N60L-B-TA3	650	7.5	1.200				-					TO220	UTC
7N60L-B-TA3	650	7.4	1.000				-					TO220	UTC
7N70L-TA3	700	7	1.500				-					TO220	UTC
2SK1455	900	0.2	70				45				30	TO220	Sanyo
2SK1338	900	2	7								50	TO220	Renesas
2SK1456	900	3	6				350				60	TO220	Sanyo
2SK1807	900	4	4								50	TO220	Renesas
2SK1457	900	5	3.6				700				70	TO220	Sanyo
UF1010EL-TA3	60	84	0.012									TO220	UTC
3N90L-TA3	900	3	4.800									TO220	UTC
3N80L-TA3	800	2.5	4.500									TO220	UTC
7N60ZL-TA3	600	7.4	1.000									TO220	UTC
IXTP100N04T2	40	100	0.007				2690	26. Mai	34	1.0	150	TO220	IXYS
IXTP120N04T2	40	120	0.0061				3240	58	35	0.75	200	TO220	IXYS
IXTP160N04T2	40	160	0.005				4640	79	40	0.60	250	TO220	IXYS
IXTP220N04T2	40	220	0.0035				6820	112	45	0.42	360	TO220	IXYS
IXTP300N04T2	40	300	0.0025				10700	145	53	0.31	480	TO220	IXYS
IXTP110N055P	55	110	0.0135				2210	76	80	0.38	390	TO220	IXYS
IXTP64N055T	55	64	0.013				1420	37	30	Jan 19	130	TO220	IXYS
IXTP90N055T	55	90	0.0088				2500	61	70	0.85	176	TO220	IXYS
IXTP90N055T2	55	90	0.0084				2770	42	37	1.0	150	TO220	IXYS
IXTP110N055T	55	110	0.0070				3080	67	70	0.65	230	TO220	IXYS
IXTP110N055T2	55	110	0.0066				3060	57	38	0.820	180	TO220	IXYS
IXTP140N055T2	55	140	0.0054				4760	82	40	0.60	250	TO220	IXYS
IXTP182N055T	55	182	0.0050				4850	114	70	0.42	360	TO220	IXYS
IXTP200N055T2	55	200	0.0042				6970	109	49	0.42	360	TO220	IXYS
IXTP220N055T	55	220	0.0040				7200	158	70	0.35	430	TO220	IXYS
IXTP240N055T	55	240	0.0036				7600	170	70	0.31	480	TO220	IXYS
IXTP260N055T2	55	260	0.0033				10800	140	60	0.31	480	TO220	IXYS
IXTP130N065T2	65	130	0.0066				4800	79	41	0.60	250	TO220	IXYS
IXTP55N075T	75	55	0.0195				1400	33	50	Jan 19	130	TO220	IXYS
IXTP70N075T2	75	70	0.0120				2580	46	48	1.0	150	TO220	IXYS
IXTP76N075T	75	76	0.0120				2580	57	80	0.85	176	TO220	IXYS
IXTP98N075T	75	98	0.0100				3100	80	100	0.75	200	TO220	IXYS
IXTP90N075T2	75	90	0.01				3100	54	50	0.500	180	TO220	IXYS
IXTP120N075T2	75	120	0.0077				4740	78	50	0.60	250	TO220	IXYS
IXTP160N075T	75	160	0.0060				4950	112	80	0.42	360	TO220	IXYS
IXTP170N075T2	75	170	0.0054				6860	109	63	0.42	360	TO220	IXYS
IXTP200N075T	75	200	0.0050				6800	160	80	0.35	430	TO220	IXYS
IXTP220N075T	75	220	0.0045				7700	165	80	0.31	480	TO220	IXYS
IXFP230N075T2	75	230	0.0042				10500	178	59	0.31	480	TO220	IXYS
IXTP230N075T2	75	230	0.0042				10500	178	66	0.31	480	TO220	IXYS
IXTP50N085T	85	50	0.0230				1460	34	55	Jan 19	130	TO220	IXYS
IXTP70N085T	85	70	0.0135				2570	59	90	0.85	176	TO220	IXYS
IXTP88N085T	85	88	0.0110				3140	69	90	0.65	230	TO220	IXYS
IXTP152N085T	85	152	0.0070				5500	114	90	0.42	360	TO220	IXYS
IXTP180N085T	85	180	0.0055				8800	170	63	0.35	430	TO220	IXYS
IXTP200N085T	85	200	0.0050				7600	152	90	0.31	480	TO220	IXYS

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Mosfet

# Power Mosfet

## N-Channel leaded

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
IXTP44N10T	100	44	0.0300				1262	33	100	Jan 19	130	TO220	IXYS
IXTP75N10P	100	75	0.025				2250	74	120	0.42	360	TO220	IXYS
IXTP60N10T	100	60	0.0180				2650	49	59	0.85	176	TO220	IXYS
IXTP80N10T	100	80	0.0140				3040	60	100	0.65	230	TO220	IXYS
IXTP130N10T	100	130	0.0091				5080	104	67	0.42	360	TO220	IXYS
IXFP130N10T	100	130	0.0091				5080	104	67	0.42	360	TO220	IXYS
IXTP160N10T	100	160	0.0070				6600	132	60	0.35	430	TO220	IXYS
IXTP180N10T	100	180	0.0064				6900	151	72	0.31	480	TO220	IXYS
IXTP42N15T	150	42	0.045				1880	21	100	0.75	200	TO220	IXYS
IXTP62N15P	150	62	0.04				2250	70	150	0.42	350	TO220	IXYS
IXTP56N15T	150	56	0.036				2250	34	100	0.50	300	TO220	IXYS
IXTP90N15T	150	90	0.020				4100	80	110	0.33	455	TO220	IXYS
IXTP102N15T	150	102	0.018				5220	87	97	0.33	455	TO220	IXYS
IXFP102N15T	150	102	0.018				5220	87		0.33	455	TO220	IXYS
IXFP110N15T2	150	110	0.013				8600	150	85	0.31	480	TO220	IXYS
IXTP32N20T	200	32	0.072				1760	38	110	0.75	200	TO220	IXYS
IXTP50N20P	200	50	0.06				2720	70	150	0.42	360	TO220	IXYS
IXTP48N20T	200	48	0.050				3000	60	130	0.5	250	TO220	IXYS
IXTP86N20T	200	86	0.029				4500	90	140	0.31	480	TO220	IXYS
IXTP42N25P	250	42	0.084				2300	70	200	0.42	300	TO220	IXYS
IXTP50N25T	250	50	0.050				4000	78	166	0.31	400	TO220	IXYS
IXTP76N25T	250	76	0.039				4500	92	148	0.27	460	TO220	IXYS
IXTP50N28T	280	50	0.060				4070	87	180	0.37	340	TO220	IXYS
IXTP36N30P	300	36	0.11				2250	70	250	0.42	300	TO220	IXYS
IXTP8N50PM	500	4	0.88				1050	20	400	3	41	TO220	IXYS
IXTP8N50P	500	8	0.8				1050	20	400	0.83	150	TO220	IXYS
IXTP12N50P	500	12	0.5				1830	29	400	0.62	200	TO220	IXYS
IXFP12N50P	500	12	0.5				1830	29	200	0.62	200	TO220	IXYS
IXTP16N50P	500	16	0.4				2250	43	400	0.42	300	TO220	IXYS
IXFP16N50P	500	16	0.4				2250	43	200	0.42	300	TO220	IXYS
IXTP16N50P	500	1.6	6.5				140	3.9	400	2.9	43	TO220	IXYS
IXTP5N50P	500	4.8	1.4				620	12.6	400	1.4	89	TO220	IXYS
IXTP6N50P	500	6	1.1				740	14.6	400	1.25	100	TO220	IXYS
IXTP2R4N50P	500	2.4	3.75				240	6.1	400	2.25	55	TO220	IXYS
IXTP3N50P	500	3.6	2				409	9.3	400	1.8	70	TO220	IXYS
IXTP1R4N60P	600	1.4	9.0				140	5.2	500	2.5	50	TO220	IXYS
IXTP10N60P	600	10	0.74				1610	32	500	0.62	200	TO220	IXYS
IXFP10N60P	600	10	0.74				1610	32	200	0.62	200	TO220	IXYS
IXTP14N60P	600	14	0.55				2500	36	500	0.42	300	TO220	IXYS
IXFP14N60P	600	14	0.55				2500	36	200	0.42	300	TO220	IXYS
IXKP10N60C5	600	10	0.385				790	17	260	1.15	109	TO220	IXYS
IXKP13N60C5	600	13	0.3				1100	20	300	0.95	130	TO220	IXYS
IXKP20N60C5	600	20	0.2				1520	32	340	0.6	208	TO220	IXYS
IXKP24N60C5	600	24	0.165				2000	40	390	0.5	250	TO220	IXYS
IXTP3N60P	600	3	2.9				411	9.8	500	1.8	70	TO220	IXYS
IXTP5N60P	600	5	1.7				750	14.2	500	1.25	100	TO220	IXYS
IXTP2N60P	600	2	5.1				240	7	400	2.25	55	TO220	IXYS
IXTP7N60P	600	7	1.1				1080	20	500	0.83	150	TO220	IXYS
IXTP4N60P	600	4	2				635	13	500	1.41	89	TO220	IXYS
IXTP2N80	800	2	6.2				440	22	510	2.3	54	TO220	IXYS
IXFP10N80P	800	10	1.1				2300	40	250	0.42	300	TO220	IXYS
IXFP7N80P	800	7	1.44				1890	32	250	0.62	200	TO220	IXYS
IXTP1N80P	800	1	14				250	9.0	700	3.0	42	TO220	IXYS
IXTP1N80	800	1	11				220	8.5	710	3.1	40	TO220	IXYS
IXTP2N80P	800	2	6				440	10.6	650	1.8	70	TO220	IXYS
IXTP4N80P	800	3.5	3				750	15	600	1.25	100	TO220	IXYS
IXFP7N100P	1000	7	0.0018				2590	47	300	0.42	30	TO220	IXYS
IXTP3N100P	1000	3.0	4.8				1100	39	820	1	125	TO220	IXYS
IXTP2N100P	1000	2.0	7.5				655	24.3	800	1.450	86	TO220	IXYS
IXFP4N100P	1000	4	3.3				1456	26	300	0.83	150	TO220	IXYS
IXFP5N100P	1000	5	2.80				1830	33.4	200	0.50	250	TO220	IXYS
IXTP08N100P	1000	0.8	20				240	11.3	750	3.0	42	TO220	IXYS
IXTP05N100	1000	0.75	17				260	7.8	710	3.1	40	TO220	IXYS
IXTP1N100P	1000	1.0	15				331	15.5	750	2.5	50	TO220	IXYS
IXTP1R4N100P	1000	1.4	11				450	17.8	750	2.0	63	TO220	IXYS
IXTP1N100	1000	1.5	11				480	23	710	2.3	54	TO220	IXYS
IXFP4N100Q	1000	4	3				1050	39	250	0.8	156	TO220	IXYS
IXTP1R4N120P	1200	1.4	13.0				666	24.8	900	1.45	86	TO220	IXYS
IXTP3N120	1200	3	4.5				1050	39	700	0.8	150	TO220	IXYS
IXFP3N120	1200	3	4.5				1050	39	250	0.62	200	TO220	IXYS
IXTP2R4N120P	1200	2.4	7.50				1207	37.0	920	1.0	125	TO220	IXYS
IXTP06N120P	1200	0.60	32				236	13.3	900	3.0	42	TO220	IXYS
IXTP08N120P	1200	0.8	25				333	14.0	900	2.5	50	TO220	IXYS
IXTP1N120P	1200	1	20				445	17.6	900	2.0	63	TO220	IXYS
<b>PLUS220</b>													
IXTV280N055T	55	280	0.0032				9800	200	70	0.27	550	Plus220	IXYS
IXUV170N075	75	175	0.005					250	120	0.5	300	Plus220	IXYS
IXTV250N075T	75	250	0.0040				9900	200	80	0.27	550	Plus220	IXYS
IXTV230N085T	85	230	0.0044				9900	187	90	0.27	550	Plus220	IXYS
IXFV110N10P	100	110	0.015				3550	110	150	0.31	480	Plus220	IXYS
IXTV200N10T	100	200	0.0055				9400	152	76	0.27	550	Plus220	IXYS
IXFV96N15P	150	96	0.024				3500	110	200	0.31	480	Plus220	IXYS
IXFV74N20P	200	74	0.034				3300	107	200	0.31	480	Plus220	IXYS

TO3P



TO247



Mosfet

Plus 220



## N-Channel leaved

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
IXFV96N20P	200	96	0.024				4800	145	200	0.25	600	Plus220	IXYS
IXTV102N20T	200	102	0.023				6800	114	130	0.20	750	Plus220	IXYS
IXTV86N25T	250	86	0.037				5330	105	156	0.23	540	Plus220	IXYS
IXTV96N25T	250	96	0.029				6100	114	158	0.20	625	Plus220	IXYS
IXFV110N25T	250	110	0.024				9400	157	170	0.18	694	Plus220	IXYS
IXFV52N30P	300	52	0.066				3490	110	200	0.31	400	Plus220	IXYS
IXTV22N50P	500	22	0.27				2630	50	400	0.35	350	Plus220	IXYS
IXFV22N50P	500	22	0.27				2630	50	200	0.35	350	Plus220	IXYS
IXTV26N50P	500	26	0.23				3600	65	300	0.31	400	Plus220	IXYS
IXFV26N50P	500	26	0.23				3600	60	200	0.31	400	Plus220	IXYS
IXTV30N50P	500	30	0.2				4150	70	400	0.27	460	Plus220	IXYS
IXFV30N50P	500	30	0.2				4150	70	200	0.27	460	Plus220	IXYS
IXTV36N50P	500	36	0.17				4700	82	400	0.23	540	Plus220	IXYS
IXFV36N50P	500	36	0.17				5500	93	200	0.23	540	Plus220	IXYS
IXTV18N60P	600	18	0.42				2500	49	500	0.35	360	Plus220	IXYS
IXFV18N60P	600	18	0.4				2500	50	200	0.35	360	Plus220	IXYS
IXTV22N60P	600	22	0.35				3600	62	500	0.31	400	Plus220	IXYS
IXFV22N60P	600	22	0.35				3600	58	200	0.31	400	Plus220	IXYS
IXTV26N60P	600	26	0.27				4150	72	500	0.27	460	Plus220	IXYS
IXFV26N60P	600	26	0.27				4150	72	200	0.27	460	Plus220	IXYS
IXTV30N60P	600	30	0.24				5050	82	500	0.23	540	Plus220	IXYS
IXFV30N60P	600	30	0.24				4000	82	200	0.25	500	Plus220	IXYS
IXFV12N80P	800	12	0.85				2800	51	250	0.35	360	Plus220	IXYS
IXFV14N80P	800	14	0.72				3900	61	250	0.31	400	Plus220	IXYS
IXFV16N80P	800	16	0.6				4000	70	250	0.27	460	Plus220	IXYS
IXFV20N80P	800	20	0.52				4685	86	250	0.25	500	Plus220	IXYS
IXFV12N90P	900	12	0.90				3080	56	300	0.33	380	Plus220	IXYS
IXFV18N90P	900	18	0.60				5230	97	300	0.23	540	Plus220	IXYS
IXFV15N100P	1000	15	0.76				5140	97	300	0.230	543	Plus220	IXYS
IXFV10N100P	1000	10	0.0014				3030	58	300	0.33	380	Plus220	IXYS
IXFV10N100PS	1000	10	0.0014				3030	58	300	0.33	380	Plus220	IXYS
IXFV12N100P	1000	12	1.05				4080	80	300	0.27	463	Plus220	IXYS
IXFV12N120P	1200	12	1.3500				6500	103	300	0.230	543	Plus220	IXYS

## T03P / T0247

IXTH300N04T2	40	300	0.0025				10700	145	53	0.31	480	T0247	IXYS
IXTQ110N055P	55	110	0.0135				2210	76	80	0.38	390	T03P	IXYS
IXTH182N055T	55	182	0.0050				4850	114	70	0.42	360	T0247	IXYS
IXTQ182N055T	55	182	0.0050				4850	114	70	0.42	360	T03P	IXYS
IXTH220N055T	55	220	0.0040				7200	158	70	0.35	430	T0247	IXYS
IXTQ220N055T	55	220	0.0040				7200	158	70	0.35	430	T03P	IXYS
IXTH240N055T	55	240	0.0036				7600	170	70	0.31	480	T0247	IXYS
IXTQ240N055T	55	240	0.0036				7600	170	70	0.31	480	T03P	IXYS
IXTH260N055T2	55	260	0.0033				10800	140	60	0.31	480	T0247	IXYS
IXTH280N055T	55	280	0.0032				9700	200	54	0.27	550	T0247	IXYS
IXTQ280N055T	55	280	0.0032				9700	200	54	0.27	550	T03P	IXYS
IXTQ150N06P	60	150	0.01				3000	118	90	0.31	480	T03P	IXYS
IXTQ200N06P	60	200	0.006				5400	200	90	0.21	714	T03P	IXYS
2SK3829	60	48	0.028			0.041	1780	40			65	T03P	Sanyo
2SK2511	60	40	0.027			0.04						T03P	NEC
2SK3830	60	72	0.016			0.027	3500	67			85	T03P	Sanyo
2SK2514	60	50	0.015			0.023						T03P	NEC
2SK3831	60	85	0.013			0.018	5250	113			100	T03P	Sanyo
2SK3307	60	70	0.010			0.014						T03P	NEC
2SK2515	60	50	0.009			0.014						T03P	NEC
2SK3356	60	75	0.008			0.012						T03P	NEC
2SK3357	60	75	0.006			0.009						T03P	NEC
IXTH160N075T	75	160	0.0060				4950	112	80	0.42	360	T0247	IXYS
IXTQ160N075T	75	160	0.0060				4950	112	80	0.42	360	T03P	IXYS
IXTH200N075T	75	200	0.0050				6800	160	50	0.35	430	T0247	IXYS
IXTQ200N075T	75	200	0.0050				6800	160	50	0.35	430	T03P	IXYS
IXTH220N075T	75	220	0.0045				7700	165	80	0.31	480	T0247	IXYS
IXTQ220N075T	75	220	0.0045				7700	165	80	0.31	480	T03P	IXYS
IXFH230N075T2	75	230	0.0042				10500	178	59	0.31	480	T0247	IXYS
IXTH250N075T	75	250	0.0040				9900	200	80	0.27	550	T0247	IXYS
IXTQ250N075T	75	250	0.0040				9900	200	80	0.27	550	T03P	IXYS
IXTH152N085T	85	152	0.0070				5500	114	90	0.42	360	T0247	IXYS
IXTQ152N085T	85	152	0.0070				5500	114	90	0.42	360	T03P	IXYS
IXTQ160N085T	85	160	0.006				6400	164	100	0.21	360	T03P	IXYS
IXTH180N085T	85	180	0.0055				8800	170	63	0.35	430	T0247	IXYS
IXTQ180N085T	85	180	0.0055				8800	170	63	0.35	430	T03P	IXYS
IXTH200N085T	85	200	0.0050				7600	152	90	0.31	480	T0247	IXYS
IXTQ200N085T	85	200	0.0050				7600	152	90	0.31	480	T03P	IXYS
IXTH230N085T	85	230	0.0044				9900	187	90	0.27	550	T0247	IXYS
IXTQ230N085T	85	230	0.0044				9900	187	90	0.27	550	T03P	IXYS
IXTQ75N10P	100	75	0.025				2250	74	120	0.42	360	T03P	IXYS
IXFH110N10P	100	110	0.015				3550	110	150	0.31	480	T0247	IXYS
IXTQ110N10P	100	110	0.015				3550	110	130	0.31	480	T03P	IXYS
IXFH140N10P	100	140	0.011				4700	155	150	0.25	600	T0247	IXYS
IXTQ140N10P	100	140	0.011				4700	155	120	0.25	600	T03P	IXYS
IXTH130N10T	100	130	0.0091				5080	104	67	0.42	360	T0247	IXYS
IXTQ130N10T	100	130	0.0091				5080	104	67	0.42	360	T03P	IXYS
IXFH170N10P	100	170	0.009				6000	198	150	0.21	714	T0247	IXYS
IXTQ170N10P	100	170	0.009				6000	198	120	0.21	714	T03P	IXYS
IXTH160N10T	100	160	0.0070				6600	132	100	0.35	430	T0247	IXYS
IXTQ160N10T	100	160	0.0070				6600	132	100	0.35	430	T03P	IXYS
IXTH180N10T	100	180	0.0064				6900	151	100	0.31	480	T0247	IXYS

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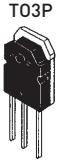
T03P

T0247

# Power Mosfet

## N-Channel leded

Type No.	Absolute maximum ratings / Electrical characteristics Ta=25°C											Package	Manufacturer
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V max	VGS = 5V max	VGS = 4.5V max	VGS = 4.0V max							
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
IXTQ180N10T	100	180	0.0064				6900	151	100	0.31	480	TO3P	IXYS
IXTH200N10T	100	200	0.0055				9400	152	76	0.27	550	TO247	IXYS
IXTQ200N10T	100	200	0.0055				9400	152	76	0.27	550	TO3P	IXYS
IXFH230N10T	100	230	0.0047				15300	250	82	0.23	650	TO247	IXYS
2SK3832	100	30	0.06			0.08	2150	42			65	TO3P	Sanyo
2SK3833	100	48	0.034			0.043	4200	79			85	TO3P	Sanyo
2SK3834	100	60	0.026			0.034	6250	117			100	TO3P	Sanyo
IXTH160N15T	150	160	0.096				8800	160	115	0.18	830	TO247	IXYS
IXTQ62N15P	150	62	0.04				2250	70	150	0.42	350	TO3P	IXYS
IXFH96N15P	150	96	0.024				3500	110	200	0.31	480	TO247	IXYS
IXTQ96N15P	150	96	0.024				3500	110	150	0.31	480	TO3P	IXYS
IXTH90N15T	150	90	0.020				4100	80	110	0.33	455	TO247	IXYS
IXTQ90N15T	150	90	0.020				4100	80	110	0.33	455	TO3P	IXYS
IXTH102N15T	150	102	0.018				5220	87	97	0.33	455	TO247	IXYS
IXFH102N15T	150	102	0.018				5220	87		0.33	455	TO247	IXYS
IXTQ102N15T	150	102	0.018				5220	87	97	0.33	455	TO3P	IXYS
IXFH120N15P	150	120	0.016				4900	150	200	0.25	600	TO247	IXYS
IXTQ120N15P	150	120	0.016				4900	150	150	0.25	600	TO3P	IXYS
IXFH150N15P	150	150	0.013				5800	190	200	0.21	714	TO247	IXYS
IXFH110N15T2	150	110	0.013				6800	150	85	0.31	480	TO247	IXYS
IXTQ150N15P	150	150	0.013				5800	190	150	0.21	714	TO3P	IXYS
IXTH130N15T	150	130	0.012				9800	113	100	0.20	750	TO247	IXYS
IXTQ130N15T	150	130	0.012				9800	113	100	0.20	750	TO3P	IXYS
IXFH160N15T	150	160	0.0096				8800	160	0.09	0.18	830	TO247	IXYS
IXFH150N17T	175	150	0.012				9800	155	96	0.18	830	TO247	IXYS
IXTH150N17T	175	150	0.012				9800	155	120	0.18	830	TO247	IXYS
IXTQ50N20P	200	50	0.06				2720	70	150	0.42	360	TO3P	IXYS
IXFH60N20F	200	60	0.038				2930	100	200	0.39	320	TO247	IXYS
IXFH74N20P	200	74	0.034				3300	107	200	0.31	480	TO247	IXYS
IXTQ74N20P	200	74	0.034				3300	107	160	0.31	480	TO3P	IXYS
IXTQ86N20T	200	86	0.029				4500	90	140	0.31	480	TO3P	IXYS
IXTH96N20P	200	96	0.024				4800	145	160	0.25	600	TO247	IXYS
IXFH96N20P	200	96	0.024				4800	145	200	0.25	600	TO247	IXYS
IXTQ96N20P	200	96	0.024				4800	145	160	0.25	600	TO3P	IXYS
IXTH102N20T	200	102	0.023				6800	114	130	0.20	750	TO247	IXYS
IXTQ102N20T	200	102	0.023				6800	114	130	0.20	750	TO3P	IXYS
IXFH120N20P	200	120	0.022				6000	152	200	0.21	714	TO247	IXYS
IXTQ120N20P	200	120	0.022				6000	152	180	0.21	714	TO3P	IXYS
IXTH130N20T	200	130	0.016				8800	150	150	0.18	830	TO247	IXYS
IXTQ42N25P	250	42	0.084				2300	70	200	0.42	300	TO3P	IXYS
IXTH50N25T	250	50	0.050				4000	78	166	0.31	400	TO247	IXYS
IXTQ50N25T	250	50	0.050				4000	78	166	0.31	400	TO3P	IXYS
IXTQ64N25P	250	64	0.049				3450	105	200	0.31	400	TO3P	IXYS
IXTH76N25T	250	76	0.039				4500	92	148	0.27	460	TO247	IXYS
IXTQ76N25T	250	76	0.039				4500	92	148	0.27	460	TO3P	IXYS
IXTH86N25T	250	86	0.037				5330	105	156	0.23	540	TO247	IXYS
IXTQ86N25T	250	86	0.037				5330	105	156	0.23	540	TO3P	IXYS
IXTQ82N25P	250	82	0.035				4800	142	200	0.25	500	TO3P	IXYS
IXTH96N25T	250	96	0.029				6100	114	158	0.20	625	TO247	IXYS
IXTQ96N25T	250	96	0.029				6100	114	158	0.20	625	TO3P	IXYS
IXFH100N25P	250	100	0.027				6300	185	200	0.21	600	TO247	IXYS
IXTQ100N25P	250	100	0.027				6300	185	200	0.21	600	TO3P	IXYS
IXTH110N25T	250	110	0.024				9400	157	170	0.18	694	TO247	IXYS
IXFH110N25T	250	110	0.024				9400	157	170	0.18	694	TO247	IXYS
2SK2058	250	25	0.16				2700				120	TO3P	Sanyo
2SK1491	250	25	0.15									TO3P	NEC
2SK1492	250	35	0.1									TO3P	NEC
IXTQ50N28T	280	50	0.060				4070	87	180	0.37	340	TO3P	IXYS
IXTQ88N28T	280	88	0.044				5750	138	200	0.20	625	TO3P	IXYS
IXTQ36N30P	300	36	0.11				2250	70	250	0.42	300	TO3P	IXYS
IXFH52N30P	300	52	0.066				3490	110	200	0.31	400	TO247	IXYS
IXTQ52N30P	300	52	0.066				3490	110	250	0.31	400	TO3P	IXYS
IXFH52N30Q	300	52	0.06				5300	150	250	0.35	357	TO247	IXYS
IXFH69N30P	300	69	0.049				4960	156	200	0.25	500	TO247	IXYS
IXTQ69N30P	300	69	0.049				4960	156	250	0.25	500	TO3P	IXYS
IXTH88N30P	300	88	0.04				6300	180	250	0.21	600	TO247	IXYS
IXFH88N30P	300	88	0.04				6300	180	200	0.21	600	TO247	IXYS
IXTQ88N30P	300	88	0.04				6300	180	250	0.21	600	TO3P	IXYS
2SK1448	450	8	0.8				1200				100	TO3P	Sanyo
2SK1449	450	12	0.6				1600				120	TO3P	Sanyo
2SK1450	450	20	0.3				3200				150	TO3P	Sanyo
IXFH12N50F	500	12	0.400				1870	54	250	0.65	180	TO247	IXYS
IXFT12N50F	500	12	0.400				1870	54	250	0.65	180	TO247	IXYS
IXFH16N50P	500	16	0.4				2250	43	200	0.42	300	TO247	IXYS
IXTQ16N50P	500	16	0.4				2250	43	400	0.42	300	TO3P	IXYS
IXTH22N50P	500	22	0.27				2630	50	400	0.35	350	TO247	IXYS
IXFH22N50P	500	22	0.27				2630	50	200	0.35	350	TO247	IXYS
IXTQ22N50P	500	22	0.27				2630	50	400	0.35	350	TO3P	IXYS
IXFH21N50F	500	21	0.25				2600	77	250	0.42	300	TO247	IXYS
IXFH26N50P	500	26	0.23				3600	60	200	0.31	400	TO247	IXYS
IXTQ26N50P	500	26	0.23				3600	65	300	0.31	400	TO3P	IXYS
IXTH30N50P	500	30	0.2				4150	70	400	0.27	460	TO247	IXYS
IXFH30N50P	500	30	0.2				4150	70	200	0.27	460	TO247	IXYS
IXTQ30N50P	500	30	0.2				4150	70	400	0.27	460	TO3P	IXYS
IXFH28N50F	500	28	0.190				3000	95	250	0.39	315	TO247	IXYS
IXTH36N50P	500	36	0.17				4700	82	400	0.23	540	TO247	IXYS
IXFH36N50P	500	36	0.17				5500	93	200	0.23	540	TO247	IXYS



N-Channel leaded

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS [V]	ID [A]	RDS(on) Ω @				Ciss [pF]	Qg [nC]	trr [ns]	Rthjc [°C/W]			PD [W]
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max [Ω]			max [Ω]	max [Ω]	max [Ω]								
IXTQ36N50P	500	36	0.17			4700	82	400	0.23	540	TO3P	IXYS	
IXFH40N50Q2	500	40	0.16			4850	110	250	0.25	560	TO247	IXYS	
IXFH44N50P	500	44	0.14			5440	98	200	0.19	650	TO247	IXYS	
IXTQ44N50P	500	44	0.14			5440	98	400	0.19	650	TO3P	IXYS	
IXFH14N60P	600	14	0.55			2500	36	200	0.42	300	TO247	IXYS	
IXTQ14N60P	600	14	0.55			2500	36	500	0.42	300	TO3P	IXYS	
IXTQ18N60P	600	18	0.42			2500	49	500	0.35	360	TO3P	IXYS	
IXFH18N60P	600	18	0.4			2500	50	200	0.35	360	TO247	IXYS	
IXFH22N60P	600	22	0.35			3600	58	200	0.31	400	TO247	IXYS	
IXTQ22N60P	600	22	0.35			3600	62	500	0.31	400	TO3P	IXYS	
IXTH26N60P	600	26	0.27			4150	72	500	0.27	460	TO247	IXYS	
IXFH26N60P	600	26	0.27			4150	72	200	0.27	460	TO247	IXYS	
IXTQ26N60P	600	26	0.27			4150	72	500	0.27	460	TO3P	IXYS	
IXTH30N60P	600	30	0.24			5050	82	500	0.23	540	TO247	IXYS	
IXFH30N60P	600	30	0.24			4000	82	200	0.25	500	TO247	IXYS	
IXTQ30N60P	600	30	0.24			5050	82	500	0.23	540	TO3P	IXYS	
IXKH20N60C5	600	20	0.2			1520	32	340	0.6	208	TO247	IXYS	
IXFH36N60P	600	36	0.19			5800	102	200	0.19	650	TO247	IXYS	
IXKH24N60C5	600	24	0.165			2000	40	390	0.5	250	TO247	IXYS	
IXKH30N60C5	600	30	0.125			2500	53	430	0.4	310	TO247	IXYS	
IXKH35N60C5	600	35	0.1			2800	60	450	0.35	357	TO247	IXYS	
IXKH47N60C	600	47	0.07			6800	250	650	0.43	290	TO247	IXYS	
IXKH70N60C5	600	70	0.045			6800	150	600	0.2	625	TO247	IXYS	
IXFH12N80P	800	12	0.85			2800	51	250	0.35	360	TO247	IXYS	
IXFQ12N80P	800	12	0.85			2800	51	250	0.35	360	TO3P	IXYS	
IXFH14N80P	800	14	0.72			3900	61	250	0.31	400	TO247	IXYS	
IXFQ14N80P	800	14	0.72			3900	61	250	0.31	400	TO3P	IXYS	
IXFH16N80P	800	16	0.6			4000	70	250	0.27	460	TO247	IXYS	
IXFH20N80P	800	20	0.52			4685	86	250	0.25	500	TO247	IXYS	
IXFH24N80P	800	24	0.4			5800	100	250	0.19	650	TO247	IXYS	
IXFH10N80P	800	10	1.1			2300	40	250	0.42	300	TO247	IXYS	
IXFQ10N80P	800	10	1.1			2300	40	250	0.42	300	TO3P	IXYS	
IXFH12N90P	900	12	0.90			3080	56	300	0.33	380	TO247	IXYS	
IXFH18N90P	900	18	0.60			5230	97	300	0.23	540	TO247	IXYS	
IXFH24N90P	900	24	0.420			7200	130	300	0.19	660	TO247	IXYS	
2SK1339	900	3	7							80	TO3P	Renesas	
2SK1340	900	5	4							80	TO3P	Renesas	
2SK1461	900	5	3.6			700				120	TO3P	Sanyo	
2SK1341	900	6	3							80	TO3P	Renesas	
2SK1342	900	8	1.6							80	TO3P	Renesas	
2SK1462	900	8	1.6			1600				150	TO3P	Sanyo	
2SK1933	900	10	1.2							80	TO3P	Renesas	
IXFH14N100Q2	1000	14	0.950			2800	83	300	0.25	500	TO247	IXYS	
IXFH15N100P	1000	15	0.76			5140	97	300	0.23	543	TO247	IXYS	
IXFH20N100P	1000	20	0.57			7300	126	300	0.190	660	TO247	IXYS	
IXFH10N100P	1000	10	0.0014			3030	56	300	0.33	380	TO247	IXYS	
IXFH6N100F	1000	6	1.9			1770	54	250	0.65	180	TO247	IXYS	
IXTH3N100P	1000	3	4.8			1100	39	820	1	125	TO247	IXYS	
IXFH12N100F	1000	12	1.05			2700	77	250	0.42	300	TO247	IXYS	
IXFH12N100P	1000	12	1.05			4080	80	300	0.27	463	TO247	IXYS	
IXFH5N100P	1000	5	2.80			1830	33.4	200	0.50	250	TO247	IXYS	
IXTH1N100	1000	1.5	11			480	23	710	2.3	60	TO247	IXYS	
IXFH4N100Q	1000	4	3			1050	39	250	0.8	156	TO247	IXYS	
2SK1773	1000	5	2							80	TO3P	Renesas	
2SK1934	1000	8	1.6							80	TO3P	Renesas	
IXFH16N120P	1200	16	0.9500			6900	120.0	300	0.190	660	TO247	IXYS	
IXTH3N120	1200	3	4.5			1100	42	700	0.62	200	TO247	IXYS	
IXTH6N120	1200	6	2.4			1950	56	850	0.42	300	TO247	IXYS	
IXTH12N120	1200	12	1.4			3400	95	850	0.27	460	TO247	IXYS	
IXTH2R4N120P	1200	2.4	7.50			1207	37.0	920	1.0	125	TO247	IXYS	
IXFH12N120P	1200	12	1.35			5400	103.0	300	0.230	543	TO247	IXYS	
2SK3746	1500	2	13			380	37.5			110	TO3P	Sanyo	
2SK1317	1500	2.5	12							80	TO3P	Renesas	
2SK1835	1500	4	7							80	TO3P	Renesas	
IXTH1N250	2500	1.5	0.040			1660	41	2500	0.50	250	TO247	IXYS	

PLUS247

IXFX180N07	70	180	0.006			9400	420	250	0.22	568	Plus247	IXYS
IXFX180N10	100	180	0.008			10900	390	250	0.22	560	Plus247	IXYS
IXFX200N10P	100	200	0.0075			7600	235	150	0.18	830	Plus247	IXYS
IXFX250N10P	100	250	0.0065			16	205	200	0.12	1250	Plus247	IXYS
IXFX180N15P	150	180	0.011			7000	240	200	0.18	830	Plus247	IXYS
IXFX220N15P	150	220	0.009			15.4	162	200	0.12	1250	Plus247	IXYS
IXFX210N17T	170	210	0.0075			18800	285		0.13	1150	Plus247	IXYS
IXFX260N17T	170	260	0.0065			24000	400		0.09	1670	Plus247	IXYS
IXFX170N20P	200	170	0.014			11.4	185	200	0.12	1250	Plus247	IXYS
IXFX170N20T	200	170	0.011			19600	265		0.13	1150	Plus247	IXYS
IXFX230N20T	200	230	0.0075			28000	378		0.09	1670	Plus247	IXYS
IXFX120N25P	250	120	0.024			8000	185	200	0.18	700	Plus247	IXYS
IXFX140N25T	250	140	0.017			19000	255		0.13	960	Plus247	IXYS
IXFX180N25T	250	180	0.0129			28000	345		0.09	1390	Plus247	IXYS
IXFX140N30P	300	140	0.024			14800	185	200	0.12	1040	Plus247	IXYS
IXFX120N30T	300	120	0.024			20000	265		0.13	960	Plus247	IXYS
IXFX160N30T	300	160	0.019			28000	335		0.09	1390	Plus247	IXYS
IXFX44N50F	500	44	0.12			5500	162	250	0.26	500	Plus247	IXYS
IXFX55N50F	500	55	0.085			6700	195	250	0.21	560	Plus247	IXYS
IXFX64N50P	500	64	0.085			8700	150	200	0.15	830	Plus247	IXYS
IXFX66N50Q2	500	66	0.080			9125	200	250	0.17	735	Plus247	IXYS
IXFX80N50P	500	80	0.065			12700	197	200	0.12	1040	Plus247	IXYS

Bold printed = AECQ101 Automotive

TO3P



TO247



Mosfet

PLUS247

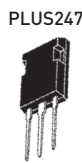


## N-Channel leded

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max [Ω]	max [Ω]	max [Ω]	max [Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
IXFX60N55Q2	550	60	0.088				6900	200	250	0.17	735	Plus247	IXYS
IXFX48N60P	600	48	0.135				8860	150	200	0.15	830	Plus247	IXYS
IXFX44N60	600	44	0.13				8900	330	250	0.22	568	Plus247	IXYS
IXFX52N60Q2	600	52	0.115				6800	198	250	0.17	735	Plus247	IXYS
IXFX64N60P	600	64	0.096				12000	200	200	0.12	1040	Plus247	IXYS
IXFX32N80P	800	32	0.27				8800	150	250	0.15	830	Plus247	IXYS
IXFX38N80Q2	800	38	0.22				9500	190	250	0.17	735	Plus247	IXYS
IXFX40N90P	900	40	0.210				14000	230	300	0.13	960	Plus247	IXYS
IXFX21N100F	1000	21	0.500				5500	160	250	0.26	500	Plus247	IXYS
IXFX30N100Q2	1000	30	0.400				9400	186	300	0.17	735	Plus247	IXYS
IXTX24N100	1000	24	0.4				8700	267	250	0.22	568	Plus247	IXYS
IXFX24N100F	1000	24	0.390				6600	195	250	0.21	560	Plus247	IXYS
IXFX24N100	1000	24	0.39				8700	267	250	0.22	560	Plus247	IXYS
IXFX26N100P	1000	26	0.39				11900	197	300	0.160	780	Plus247	IXYS
IXFX32N100P	1000	32	0.32				14200	225	300	0.130	960	Plus247	IXYS
IXFX30N110P	1100	30	0.36				13600	235	300	0.130	960	Plus247	IXYS
IXFX20N120P	1200	20	0.5700				11100	193	300	0.160	780	Plus247	IXYS
IXFX26N120P	1200	26	0.46				14000	225	300	0.130	960	Plus247	IXYS

### T0264

Type No.	VDS	ID	RDS(on) Ω @	Ciss	Qg	trr	Rthjc	PD	Package	Manufacturer
[V]	[A]	max [Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
2SK2393	1500	8	2.8					200	T0264	Renesas
IXFK180N07	70	180	0.006	9400	420	250	0.22	568	T0264	IXYS
IXTK170N10P	100	170	0.009	6000	198	120	0.21	714	T0264	IXYS
IXFK170N10P	100	170	0.009	6000	198	150	0.21	714	T0264	IXYS
IXFK180N10	100	180	0.008	10900	390	250	0.22	560	T0264	IXYS
IXTK200N10P	100	200	0.0075	7600	240	100	0.18	800	T0264	IXYS
IXFK200N10P	100	200	0.0075	7600	235	150	0.18	830	T0264	IXYS
IXFK250N10P	100	250	0.0065	16	205	200	0.12	1250	T0264	IXYS
IXTK250N10	100	250	0.005	7800	390	150	0.17	730	T0264	IXYS
IXTK150N15P	150	150	0.013	5800	190	150	0.21	714	T0264	IXYS
IXFK150N15P	150	150	0.013	5800	190	200	0.21	714	T0264	IXYS
IXFK180N15P	150	180	0.011	7000	240	200	0.18	830	T0264	IXYS
IXTK180N15P	150	180	0.01	7000	240	150	0.18	800	T0264	IXYS
IXFK220N15P	150	220	0.009	15.4	162	200	0.12	1250	T0264	IXYS
IXFK210N17T	170	210	0.0075	18800	285		0.13	1150	T0264	IXYS
IXFK260N17T	170	260	0.0065	24000	400		0.09	1670	T0264	IXYS
IXTK120N20P	200	120	0.022	6000	152	180	0.21	714	T0264	IXYS
IXFK120N20P	200	120	0.022	6000	152	200	0.21	714	T0264	IXYS
IXTK140N20P	200	140	0.018	7500	240	180	0.18	800	T0264	IXYS
IXFK140N20P	200	140	0.018	7500	240	200	0.18	830	T0264	IXYS
IXFK170N20P	200	170	0.014	11.4	185	200	0.12	1250	T0264	IXYS
IXFK170N20T	200	170	0.011	19600	265		0.13	1150	T0264	IXYS
IXFK230N20T	200	230	0.0075	28000	378		0.09	1670	T0264	IXYS
IXTK82N25P	250	82	0.035	4800	142	200	0.25	500	T0264	IXYS
IXTK100N25P	250	100	0.027	6300	185	200	0.21	600	T0264	IXYS
IXTK120N25P	250	120	0.024	8000	185	200	0.18	700	T0264	IXYS
IXFK120N25P	250	120	0.024	8000	185	200	0.18	700	T0264	IXYS
IXFK140N25T	250	140	0.017	19000	255		0.13	960	T0264	IXYS
IXFK180N25T	250	180	0.0129	28000	345		0.09	1390	T0264	IXYS
IXTK140N30P	300	140	0.240	14800	185	250	0.12	1040	T0264	IXYS
IXTK88N30P	300	88	0.04	6300	180	250	0.21	600	T0264	IXYS
IXFK88N30P	300	88	0.04	6300	180	200	0.21	600	T0264	IXYS
IXTK102N30P	300	102	0.033	7500	224	250	0.18	700	T0264	IXYS
IXFK102N30P	300	102	0.033	7500	224	200	0.18	700	T0264	IXYS
IXFK140N30P	300	140	0.024	14800	185	200	0.12	1040	T0264	IXYS
IXFK120N30T	300	120	0.024	20000	265		0.13	960	T0264	IXYS
IXFK160N30T	300	160	0.019	28000	335		0.09	1390	T0264	IXYS
IXFK40N50Q2	500	40	0.16	4850	110	250	0.22	560	T0264	IXYS
IXFK44N50P	500	44	0.14	5440	98	200	0.19	650	T0264	IXYS
IXFK44N50F	500	44	0.12	5500	162	250	0.26	500	T0264	IXYS
IXFK55N50F	500	55	0.085	6700	195	250	0.21	560	T0264	IXYS
IXFK64N50P	500	64	0.085	8700	150	200	0.15	830	T0264	IXYS
IXFK66N50Q2	500	66	0.080	9125	200	250	0.17	735	T0264	IXYS
IXFK80N50P	500	80	0.065	12700	197	200	0.12	1040	T0264	IXYS
IXFX60N55Q2	550	60	0.088	6900	200	250	0.17	735	T0264	IXYS
IXFK36N60P	600	36	0.19	5800	102	200	0.19	650	T0264	IXYS
IXFK48N60P	600	48	0.135	8860	150	200	0.15	830	T0264	IXYS
IXFK44N60	600	44	0.13	8900	330	250	0.22	568	T0264	IXYS
IXFX52N60Q2	600	52	0.115	6800	198	250	0.17	735	T0264	IXYS
IXFK64N60P	600	64	0.096	12000	200	200	0.12	1040	T0264	IXYS
IXFK85N60C	600	85	0.036	13600	500	650	0.18	700	T0264	IXYS
IXFK24N80P	800	24	0.4	5800	100	250	0.19	650	T0264	IXYS
IXFK32N80P	800	32	0.27	8800	150	250	0.15	830	T0264	IXYS
IXFK38N80Q2	800	38	0.22	9500	190	250	0.17	735	T0264	IXYS
IXFK44N80P	800	44	0.19	12000	198	250	0.12	1200	T0264	IXYS
IXFK40N90P	900	40	0.210	14000	230	300	0.13	960	T0264	IXYS
IXFK21N100F	1000	21	0.500	5500	160	250	0.26	500	T0264	IXYS
IXFK30N100Q2	1000	30	0.400	9400	186	300	0.17	735	T0264	IXYS
IXFK24N100F	1000	24	0.390	6600	195	250	0.21	560	T0264	IXYS
IXFK24N100	1000	24	0.39	8700	267	250	0.22	560	T0264	IXYS
IXFK26N100P	1000	26	0.39	11900	197	300	0.160	780	T0264	IXYS
IXFK32N100P	1000	32	0.32	14200	225	300	0.130	960	T0264	IXYS
IXFK30N110P	1100	30	0.36	13600	235	300	0.130	960	T0264	IXYS
IXFK20N120P	1200	20	0.57	11100	193	300	0.160	780	T0264	IXYS
IXFK26N120P	1200	26	0.46	14000	225	300	0.130	960	T0264	IXYS



Mosfet

T0264



# Power Mosfet

## N-Channel leaded

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								

### PLUS264

IXFB300N10P	100	300	0.0055				23	279	200	0.10	1500	Plus264	IXYS
IXFB210N20P	200	210	0.0105				18.6	255	200	0.10	1250	Plus264	IXYS
IXFB170N30P	300	170	0.018				20	258	200	0.10	1250	Plus264	IXYS
IXFB80N50Q2	500	80	0.06				15000	250	250	0.13	960	Plus264	IXYS
IXFB100N50P	500	100	0.049				20000	240	200	0.1	1250	Plus264	IXYS
IXFB72N55Q2	550	72	0.072				7200	270	250	0.14	890	Plus264	IXYS
IXFB70N60Q2	600	70	0.08				12000	265	250	0.14	890	Plus264	IXYS
IXFB82N60P	600	82	0.075				23000	240	200	0.1	1250	Plus264	IXYS
IXFB50N80Q2	800	50	0.15				7200	260	300	0.14	890	Plus264	IXYS
IXFB60N80P	800	60	0.14				18000	250	250	0.1	1250	Plus264	IXYS
IXFB52N90P	900	52	0.160				19000	308	300	0.10	1250	Plus264	IXYS
IXFB38N100Q2	1000	38	0.250				13500	250	300	0.14	890	Plus264	IXYS
IXFB44N100P	1000	44	0.22				19000	305	300	0.1	1250	Plus264	IXYS
IXFB40N110P	1100	40	0.2600				19000	310	300	0.100	1250	Plus264	IXYS
IXFB30N120P	1200	30	0.350				22500	310	300	0.10	1250	Plus264	IXYS

ISOPLUS264



Mosfet



# Power Mosfet

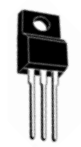
## N-Channel leaded isolated

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc		
[V]	[A]	VGS = 10V max	VGS = 5V max	VGS = 4.5V max	VGS = 4.0V max	[pF]	[nC]	[ns]	[°C/W]	[W]		

### TO220 iso

2SK3659	20	65	0.006		0,010							25	TO220 iso	NEC
2SK1886	30	15	0.055			0,075	1000						TO220 iso	Sanyo
2SK1887	30	20	0.04			0,055	1300					25	TO220 iso	Sanyo
2SK1888	30	30	0.025			0,035	2000					30	TO220 iso	Sanyo
2SK4043LS	30	20	0.024			0,021	3000	37				20	TO220 iso	Sanyo
2SK2977LS	30	30	0.022			0,035	1600	40				30	TO220 iso	Sanyo
2SK3755	40	45	0.012		0,018								TO220 iso	NEC
30N06L-TF3	60	30	0.400					40					TO220 iso	UTC
60N06L-TF3	60	60	0.018					18					TO220 iso	UTC
2SK2413	60	10	0.07			0,095							TO220 iso	NEC
2SK1850	60	20	0.07			0,095							TO220 iso	NEC
2SK2412	60	20	0.07			0,095							TO220 iso	NEC
2SK3702	60	18	0.055			0,085	775	19				20	TO220 iso	Sanyo
2SK1851	60	15	0.045			0,06							TO220 iso	NEC
2SK2410	60	30	0.04			0,06							TO220 iso	NEC
2SK3413LS	60	25	0.033			0,049	1000	34				25	TO220 iso	Sanyo
2SK2724	60	35	0.027			0,04							TO220 iso	NEC
2SK2409	60	40	0.027			0,04							TO220 iso	NEC
2SK3414LS	60	30	0.026			0,036	1700	52				25	TO220 iso	Sanyo
2SK3703	60	30	0.026			0,04	1780	40				25	TO220 iso	Sanyo
2SK3415LS	60	40	0.017			0,024	3000	89				35	TO220 iso	Sanyo
2SK3704	60	45	0.014			0,021	3500	67				30	TO220 iso	Sanyo
2SK3714	60	50	0.013			0,022							TO220 iso	NEC
2SK3705	60	60	0.013			0,017	5500	100				35	TO220 iso	Sanyo
2SK3715	60	75	0.006			0,010							TO220 iso	NEC
2SK1895	80	12	0.08			0,11	950	-				25	TO220 iso	Sanyo
IXTP60N10TM	100	33	0.019				2650	49	59	2.50		60	TO220 iso	IXYS
2SK1904	100	10	0.16			0,22	950					25	TO220 iso	Sanyo
2SK1288	100	15	0.15			0,2							TO220 iso	NEC
2SK2462	100	15	0.14			0,17							TO220 iso	NEC
2SK1905	100	12	0.135			0,18	1230					25	TO220 iso	Sanyo
2SK3706	100	12	0.13			0,16	880	24				20	TO220 iso	Sanyo
2SK3793	100	12	0.125		0,148								TO220 iso	NEC
2SK1852	100	10	0.12			0,15							TO220 iso	NEC
2SK1853	100	15	0.08			0,1							TO220 iso	NEC
2SK1292	100	20	0.08			0,1							TO220 iso	NEC
2SK2461	100	20	0.08			0,1							TO220 iso	NEC
2SK1906	100	20	0.08			0,11	1900					30	TO220 iso	Sanyo
2SK3707	100	20	0.06			0,08	2150	44				25	TO220 iso	Sanyo
2SK3708	100	30	0.033			0,042	4200	73				30	TO220 iso	Sanyo
2SK3709	100	37	0.025			0,032	6250	117				35	TO220 iso	Sanyo
2SK2132	180	4	0.65										TO220 iso	NEC
2SK2132	180	4	0.65										TO220 iso	NEC
UF630L-TF3	200	9	0.400					400					TO220 iso	UTC
UF640L-TF3	200	18	0.180					180					TO220 iso	UTC
IXTP50N20PM	200	20	0.060				2720	70	150	1.66		90	TO220 iso	IXYS
2SK2160	200	7	0.45				550					25	TO220 iso	Sanyo
2SK3108	200	8	0.4										TO220 iso	NEC
2SK2161	200	9	0.35				700					25	TO220 iso	Sanyo
2SK2378	200	13	0.21				1100					30	TO220 iso	Sanyo
2SK3110	200	14	0.18										TO220 iso	NEC
2SK2379	200	20	0.095				2400					40	TO220 iso	Sanyo
UF634L-TF3	250	8.1	0.450					450					TO220 iso	UTC
2SK2680LS	250	6	0.8				420					25	TO220 iso	Sanyo
2SK2010	250	4	0.7				600					25	TO220 iso	Sanyo
2SK3454	250	7	0.63										TO220 iso	NEC
2SK2108	250	6	0.5				750					25	TO220 iso	Sanyo
2SK2681LS	250	10	0.39				900					30	TO220 iso	Sanyo
2SK2011	250	12	0.35				1250					30	TO220 iso	Sanyo
2SK2682LS	250	13	0.27				1290					35	TO220 iso	Sanyo
2SK2341	250	11	0.26										TO220 iso	NEC
2SK2683LS	250	16	0.18				1950					40	TO220 iso	Sanyo
2SK2012	250	18	0.16				2700					40	TO220 iso	Sanyo
IXTP60N28TM-A	280	18	0.058				5070	84	170	2.50		50	TO220 iso	IXYS
UF740L-TF3	400	10	0.550					550					TO220 iso	UTC
11N40L-TF3	400	11.4	0.480					480					TO220 iso	UTC
UF730L-TF3	400	6.5	1.000					1000					TO220 iso	UTC
6N40L-TF3	400	6	1.000					1000					TO220 iso	UTC
2SK3093LS	400	3	2.3				360	10				20	TO220 iso	Sanyo
2SK3095LS	400	5	1.2				660	20				25	TO220 iso	Sanyo
2SK3094	400	5.5	1.2				660	20				55	TO220 iso	Sanyo
2SK3097LS	400	6.5	0.87				860	27				30	TO220 iso	Sanyo
2SK3099LS	400	9	0.55				1150	40				35	TO220 iso	Sanyo
2SK3101LS	400	11	0.4				1850	58				40	TO220 iso	Sanyo
2SK1443LS	450	1	4.5				250					20	TO220 iso	Sanyo
2SK1444LS	450	3	2.6				400					25	TO220 iso	Sanyo
2SK1445LS	450	5	1.4				700					30	TO220 iso	Sanyo
2SK1446LS	450	7	0.8				1200					35	TO220 iso	Sanyo
2SK2787LS	450	8	0.75				1500					40	TO220 iso	Sanyo
2SK1447LS	450	9	0.6				1600					40	TO220 iso	Sanyo
2SK4062LS	450	18	0.32				2150	39				45	TO220 iso	Sanyo
UF840L-TF3	500	8	0.850					850					TO220 iso	UTC
IXFP8N50PM	500	4.4	0.8				1050	20	200	3		42	TO220 iso	IXYS
UK3568L-TF3	500	12	0.520					520					TO220 iso	UTC
IXFP12N50PM	500	6	0.500				1830	29	300	2.5		50	TO220 iso	IXYS
IXTP12N50PM	500	6	0.5				1830	29	400	2.5		50	TO220 iso	IXYS

TO220 iso



Mosfet

# Power Mosfet

## N-Channel leaded isolated

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS [V]	ID [A]	RDS(on) Ω @				Ciss [pF]	Qg [nC]	trr [ns]	Rthjc [°C/W]			PD [W]
			VGS = 10V max [Ω]	VGS = 5V max [Ω]	VGS = 4.5V max [Ω]	VGS = 4.0V max [Ω]							
IXFP5N50PM	500	3.2	1.4			620	12.6	200	3.3	38	TO220 iso	IXYS	
UF830L-TF3	500	4.5	1.500				1500				TO220 iso	UTC	
IXFP3N50PM	500	2.7	2			409	9.3	200	3.5	36	TO220 iso	IXYS	
2SK2617LS	500	4	1.6			550	15			25	TO220 iso	Sanyo	
2SK3306B	500	5	1.5								TO220 iso	NEC	
2SK2618LS	500	5	1.25			700	20			30	TO220 iso	Sanyo	
2SK3326B	500	10	0.85								TO220 iso	NEC	
2SK3455B	500	12	0.6								TO220 iso	NEC	
2SK4084LS	500	14	0.52			1000	38.4			37	TO220 iso	Sanyo	
2SK4085LS	500	16	0.43			1200	46.6			40	TO220 iso	Sanyo	
2SK4063LS	500	16	0.39			2150	40			45	TO220 iso	Sanyo	
IXTP10N60PM	600	5	0.74			1610	32	500	2.5	50	TO220 iso	IXYS	
10N60L-A-TF3	600	9.5	0.730				730				TO220 iso	UTC	
12N60L-A-TF3	600	12	0.700				700				TO220 iso	UTC	
IXTP14N60PM	600	7	0.550			2500	36	500	1.66	75	TO220 iso	IXYS	
IXTP18N60PM	600	9	0.420			2500	49	500	1.39	90	TO220 iso	IXYS	
IXKP10N60C5M	600	5.4	0.385			790	17	260	3.95	31	TO220 iso	IXYS	
IXKP13N60C5M	600	6.5	0.3			1100	22	300	3.85	32	TO220 iso	IXYS	
IXKP20N60C5M	600	7.6	0.2			1520	32	340	3.75	33	TO220 iso	IXYS	
IXKP24N60C5M	600	8.5	0.165			2000	40	390	3.65	34	TO220 iso	IXYS	
IXTP7N60PM	600	4	1.1			1180	20	500	3.0	41	TO220 iso	IXYS	
1N60L-A-TF3	600	1.2	11.500				11500				TO220 iso	UTC	
2N60L-A-TF3	600	2	5.000				5000				TO220 iso	UTC	
3N60L-A-TF3	600	3	3.600				3600				TO220 iso	UTC	
4N60L-A-TF3	600	4	2.500				2500				TO220 iso	UTC	
5N60L-A-TF3	600	4.5	2.500				2500				TO220 iso	UTC	
6N60L-A-TF3	600	6.2	1.500				1500				TO220 iso	UTC	
7N60L-A-TF3	600	7	1.200				1200				TO220 iso	UTC	
8N60L-A-TF3	600	7.5	1.200				1200				TO220 iso	UTC	
7N60L-A-TF3	600	7.4	1.000				1000				TO220 iso	UTC	
UK2996L-TF3	600	10	1.000				1000				TO220 iso	UTC	
2SK2678LS	600	1.5	5.5			300	8			20	TO220 iso	Sanyo	
2SK2624LS	600	3	2.6			550	15			25	TO220 iso	Sanyo	
2SK3114B	600	4	2.2								TO220 iso	NEC	
2SK2625LS	600	4	2			700	20			30	TO220 iso	Sanyo	
2SK3115B	600	6	1.2								TO220 iso	NEC	
2SK2628LS	600	6	1.1			1050	30			35	TO220 iso	Sanyo	
2SK3298B	600	7.5	0.75								TO220 iso	NEC	
2SK4086LS	600	11.5	0.75			1000	38.2			37	TO220 iso	Sanyo	
2SK4087LS	600	9.2	0.61			1200	46			40	TO220 iso	Sanyo	
2SK4064LS	600	14	0.58			2000	37			45	TO220 iso	Sanyo	
10N60L-B-TF3	650	9.5	0.730				730				TO220 iso	UTC	
12N60L-B-TF3	650	12	0.700				700				TO220 iso	UTC	
1N60L-B-TF3	650	1.2	11.500				11500				TO220 iso	UTC	
2N60L-B-TF3	650	2	5.000				5000				TO220 iso	UTC	
3N60L-B-TF3	650	3	3.600				3600				TO220 iso	UTC	
4N60L-B-TF3	650	4	2.500				2500				TO220 iso	UTC	
5N60L-B-TF3	650	4.5	2.500				2500				TO220 iso	UTC	
6N60L-B-TF3	650	6.2	1.500				1500				TO220 iso	UTC	
7N65L-TF3	650	7	1.350				1350				TO220 iso	UTC	
7N60AL-B-TF3	650	7	1.200				1200				TO220 iso	UTC	
8N60L-B-TF3	650	7.5	1.200				1200				TO220 iso	UTC	
7N60L-B-TF3	650	7.4	1.000				1000				TO220 iso	UTC	
2SK4088LS	650	7.5	0.85			1000	37.6			40	TO220 iso	Sanyo	
2SK4089LS	650	12	0.72			1200	45.4			40	TO220 iso	Sanyo	
12N07L-TF3	700	12	0.700				700				TO220 iso	UTC	
7N70L-TF3	700	7	1.500				1500				TO220 iso	UTC	
IXFP7N80PM	800	3.5	1.44			1890	32	250	2.5	50	TO220 iso	IXYS	
3N80L-TF3	800	2.5	4.500				4500				TO220 iso	UTC	
2SK2632LS	800	2.5	4.8			550	15			25	TO220 iso	Sanyo	
3N90L-TF3	900	3	4.800				4800				TO220 iso	UTC	
2SK1458LS	900	0.2	70			45	-			20	TO220 iso	Sanyo	
2SK1459LS	900	2.5	6			350	-			30	TO220 iso	Sanyo	
2SK1808	900	4	4							50	TO220 iso	Renesas	
2SK1460LS	900	3.5	3.6			700	-			40	TO220 iso	Sanyo	
IXFP05N100M	1000	0.7	17			260	7.8	300	5.0	25	TO220 iso	IXYS	
IXTP05N100M	1000	0.70	17			260	7.8	710	5.0	25	TO220 iso	IXYS	
2SK1412LS	1500	0.1	20			40	-			20	TO220 iso	Sanyo	
2SK3745LS	1500	2	13			380	37.5			35	TO220 iso	Sanyo	

TO220 iso



Mosfet

### Isoplus220

IXTC110N055T	55	78	0.0090			3080	67	70	1.50	100	Isoplus220	IXYS
IXTC220N055T	55	130	0.0044			7200	158	30	1.00	150	Isoplus220	IXYS
IXTC240N055T	55	132	0.0040			7600	170	30	1.00	150	Isoplus220	IXYS
IXTC280N055T	55	145	0.0036			9800	200	30	0.96	160	Isoplus220	IXYS
IXUC160N075	75	160	0.0065				250	120	0.50	300	Isoplus220	IXYS
IXTC200N075T	75	110	0.0055			6800	160	80	1.00	150	Isoplus220	IXYS
IXTC220N075T	75	115	0.0050			7700	165	50	1.00	150	Isoplus220	IXYS
IXTC250N075T	75	128	0.0044			9900	200	90	0.96	160	Isoplus220	IXYS
IXTC180N085T	85	110	0.0061			8800	170	63	1.00	150	Isoplus220	IXYS
IXTC200N085T	85	110	0.0055			7600	160	90	1.00	150	Isoplus220	IXYS
IXTC230N085T	85	120	0.0053			9900	187	90	0.96	160	Isoplus220	IXYS
IXFC110N10P	100	60	0.017			3550	110	150	1.25	120	Isoplus220	IXYS
IXTC160N10T	100	83	0.0075			6600	132	60	1.60	140	Isoplus220	IXYS
IXTC180N10T	100	90	0.0070			6900	151	100	1.00	150	Isoplus220	IXYS
IXTC200N10T	100	101	0.0063			9400	152	76	0.96	160	Isoplus220	IXYS
IXFC96N15P	150	42	0.026			3500	110	200	1.25	120	Isoplus220	IXYS
IXFC74N20P	200	35	0.036			3300	107	200	1.25	120	Isoplus220	IXYS

Isoplus 220



# Power Mosfet

## N-Channel leaded isolated

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDSS [V]	ID [A]	RDS(on) Ω @				Ciss [pF]	Qg [nC]	trr [ns]	Rthjc [°C/W]		
VGS = 10V max [Ω]			VGS = 5V max [Ω]	VGS = 4.5V max [Ω]	VGS = 4.0V max [Ω]							
IXTC96N25T	250	40	0.031			6100	114	158	0.85	147	Isoplus220	IXYS
IXTC110N25T	250	50	0.027			9400	157	170	0.69	180	Isoplus220	IXYS
IXFC52N30P	300	24	0.075			3490	110	200	1.25	100	Isoplus220	IXYS
IXFC16N50P	500	10	0.45			2250	43	200	1	125	Isoplus220	IXYS
IXTC26N50P	500	15	0.26			3600	65	400	0.95	130	Isoplus220	IXYS
IXFC26N50P	500	15	0.26			3600	65	250	0.95	130	Isoplus220	IXYS
IXFC36N50P	500	19	0.19			5500	93	250	0.75	156	Isoplus220	IXYS
IXKC40N60C	600	24	0.96			6000	158	610	0.50	250	Isoplus220	IXYS
IXFC14N60P	600	8	0.63			2500	36	200	1.00	125	Isoplus220	IXYS
IXFC22N60P	600	12	0.36			4000	58	200	0.95	130	Isoplus220	IXYS
IXFC30N60P	600	15	0.25			3820	85	200	0.75	166	Isoplus220	IXYS
IXKC20N60C	600	14	0.19			3000	79	610	1.00	125	Isoplus220	IXYS
IXKC15N60C5	600	15	0.165			2000	40	390	1.10	114	Isoplus220	IXYS
IXKC19N60C5	600	19	0.125			2500	53	430	0.95	132	Isoplus220	IXYS
IXKC23N60C5	600	23	0.1			2800	60	430	0.85	147	Isoplus220	IXYS
IXFC12N80P	800	7	0.93			2800	51	250	1.05	120	Isoplus220	IXYS
IXFC14N80P	800	8	0.77			3900	61	250	0.95	130	Isoplus220	IXYS
IXFC16N80P	800	9	0.65			4000	70	250	0.9	138	Isoplus220	IXYS
IXFC20N80P	800	10	0.57			4685	86	250	0.8	160	Isoplus220	IXYS
IXKC13N80C	800	13	0.29			2300	90	550	1.0	130	Isoplus220	IXYS
IXKC25N80C	800	25	0.15			4600	180	550	0.5	140	Isoplus220	IXYS
IXFC10N80P	800	5	1.2			2300	40	250	1.25	100	Isoplus220	IXYS

### TO3P iso

2SK1424	60	40	0.026			2400				60	TO3P iso	Sanyo
2SK3835	60	50	0.015			3500	67			40	TO3P iso	Sanyo
2SK1425	60	60	0.016			4800				80	TO3P iso	Sanyo
2SK1435	100	30	0.055			2400				60	TO3P iso	Sanyo
2SK3836	100	33	0.034			4200	79			40	TO3P iso	Sanyo
2SK1436	100	50	0.035			4800				80	TO3P iso	Sanyo
2SK1451	450	8	0.8			1200				50	TO3P iso	Sanyo
2SK1452	450	10	0.6			1600				60	TO3P iso	Sanyo
2SK1453	450	16	0.3			3200				70	TO3P iso	Sanyo
2SK1463	900	4.5	3.6			700				60	TO3P iso	Sanyo
2SK1859	900	6	3							60	TO3P iso	Renesas
2SK1464	900	8	1.6			1600				80	TO3P iso	Sanyo
2SK1775	900	8	1.6							60	TO3P iso	Renesas
2SK1413	1500	2	11			550				60	TO3P iso	Sanyo
2SK3747	1500	2	13			380	37.5			50	TO3P iso	Sanyo
2SK2225	1500	2	12							60	TO3P iso	Renesas
2SK3748	1500	4	7			790	80			65	TO3P iso	Sanyo

### Isoplus247

IXFR200N10P	100	133	0.009			7600	235	150	0.5	300	Isoplus247	IXYS
IXTR200N10P	100	120	0.008			7600	235	100	0.5	300	Isoplus247	IXYS
IXFR180N15P	150	100	0.013			7000	240	200	0.5	300	Isoplus247	IXYS
IXFR140N20P	200	90	0.022			7500	240	200	0.5	300	Isoplus247	IXYS
IXFR102N30P	300	60	0.036			7500	224	200	0.5	250	Isoplus247	IXYS
IXFR140N30P	300	70	0.026			14800	185	200	0.35	360	Isoplus247	IXYS
IXFR36N50P	500	19	0.19			5500	93	200	0.75	156	Isoplus247	IXYS
IXFR40N50Q2	500	29	0.17			4850	110	250	0.39	320	Isoplus247	IXYS
IXFR44N50P	500	24	0.15			5440	98	200	0.6	208	Isoplus247	IXYS
IXFR64N50P	500	35	0.095			8700	150	200	0.42	300	Isoplus247	IXYS
IXFR66N50Q2	500	50	0.085			9125	200	250	0.25	500	Isoplus247	IXYS
IXFR80N50P	500	45	0.072			12700	197	200	0.35	360	Isoplus247	IXYS
IXFR30N60P	600	15	0.25			3820	85	200	0.75	166	Isoplus247	IXYS
IXFR36N60P	600	20	0.2			5800	102	200	0.6	208	Isoplus247	IXYS
IXFR48N60P	600	32	0.15			8860	150	200	0.42	300	Isoplus247	IXYS
IXFR44N60	600	38	0.13			8900	330	250	0.3	417	Isoplus247	IXYS
IXFR64N60P	600	36	0.105			12000	200	200	0.35	360	Isoplus247	IXYS
IXKR40N60C	600	38	0.07			6800	250	650	0.45	280	Isoplus247	IXYS
IXKR47N60C5	600	47	0.045			6800	150	600	0.45	278	Isoplus247	IXYS
IXFR20N80P	800	10	0.57			4685	86	250	0.8	160	Isoplus247	IXYS
IXFR24N80P	800	13	0.42			7200	105	250	0.6	208	Isoplus247	IXYS
IXFR32N80P	800	20	0.29			8800	150	250	0.42	300	Isoplus247	IXYS
IXFR38N80Q2	800	28	0.240			9500	190	250	0.25	500	Isoplus247	IXYS
IXFR44N80P	800	26	0.19			12000	200	250	0.35	360	Isoplus247	IXYS
IXKR25N80C	800	25	0.15			4600	170	550	0.50	250	Isoplus247	IXYS
IXFR18N90P	900	10.5	0.660			5230	97	300	0.62	200	Isoplus247	IXYS
IXFR24N90P	900	13	0.460			7200	130	300	0.54	230	Isoplus247	IXYS
IXFR40N90P	900	21	0.23			14000	230	300	0.42	300	Isoplus247	IXYS
IXFR20N100P	1000	11	0.64			7300	126	300	0.54	230	Isoplus247	IXYS
IXFR26N100P	1000	15	0.43			11900	197	300	0.43	290	Isoplus247	IXYS
IXFR24N100	1000	22	0.390			8700	267	250	0.30	416	Isoplus247	IXYS
IXFR32N100P	1000	18	0.34			14200	225	300	0.39	320	Isoplus247	IXYS
IXFR14N100Q2	1000	9.5	1.10			2800	83	300	0.62	200	Isoplus247	IXYS
IXFR4N100Q	1000	3.5	3			1050	39	200	1.57	80	Isoplus247	IXYS
IXFR30N110P	1100	16	0.400			13600	235	300	0.390	320	Isoplus247	IXYS
IXFR20N120P	1200	13	0.63			12900	193	300	0.43	290	Isoplus247	IXYS
IXFR26N120P	1200	15	0.5			14000	225	300	0.39	320	Isoplus247	IXYS
IXFR16N120P	1200	9.0	1.04			6900	120	300	0.54	230	Isoplus247	IXYS

### Isoplus264

IXFL80N50Q2	500	66	0.066			12800	250	250	0.33	380	Isoplus264	IXYS
IXFL100N50P	500	70	0.052			20000	240	200	0.2	625	Isoplus264	IXYS
IXFL70N60Q2	600	37	0.088			12	265	250	0.35	360	Isoplus264	IXYS
IXFL82N60P	600	54	0.08			23000	240	200	0.2	625	Isoplus264	IXYS
IXFL60N80P	800	40	0.15			18000	250	250	0.2	625	Isoplus264	IXYS
IXFL34N100	1000	30	0.3			9200	380	180	0.225	556	Isoplus264	IXYS

Mosfet

TO3P iso



ISOPLUS247



# Power Mosfet

## N-Channel leaded isolated

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS [V]	ID [A]	RDS(on) Ω @				Ciss [pF]	Qg [nC]	trr [ns]	Rthjc [°C/W]			PD [W]
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max [Ω]			max [Ω]	max [Ω]	max [Ω]								
IXFL38N100Q2	1000	29	0.280				13500	250	300	0.33	380	Isoplus264	IXYS
IXFL44N100P	1000	22	0.24				19000	305	300	0.35	357	Isoplus264	IXYS
IXFL38N100P	1000	29	0.23				24000	350	300	0.24	520	Isoplus264	IXYS
IXFL40N110P	1100	21	0.2800				19000	310	300	0.350	357	Isoplus264	IXYS
IXFL36N110P	1100	26	0.260				23000	350	300	0.240	520	Isoplus264	IXYS
IXFL30N120P	1200	18	0.380				19000	310	300	0.350	357	Isoplus264	IXYS
IXFL32N120P	1200	24	0.340				21000	360	300	0.240	520	Isoplus264	IXYS

### SOT227B

IXFN180N07	70	180	0.007				9000	480	150	0.24	521	SOT227B	IXYS
IXFN340N07	70	340	0.004				12200	490	200	0.18	694	SOT227B	IXYS
IXFN280N085	85	280	0.0044				19000	580	200	0.18	700	SOT227B	IXYS
IXFN180N10	100	180	0.008				9100	360	250	0.21	595	SOT227B	IXYS
IXFN200N10P	100	200	0.0075				7600	235	150	0.22	680	SOT227B	IXYS
IXFN230N10	100	230	0.006				19000	570	250	0.18	700	SOT227B	IXYS
IXFN300N10P	100	295	0.0055				23	279	200	0.14	1070	SOT227B	IXYS
IXFN200N10T	100	200	0.0055				9400	152	76	0.30	550	SOT227B	IXYS
IXFN320N10T	100	320	0.0032				22600	375	100	0.22	680	SOT227B	IXYS
IXFN360N10T	100	360	0.0026				36000	505	82	0.18	830	SOT227B	IXYS
IXFN180N15P	150	150	0.011				7000	240	200	0.22	680	SOT227B	IXYS
IXFN260N17T	170	245	0.0065				24000	400		0.138	1090	SOT227B	IXYS
IXFN140N20P	200	115	0.018				7500	240	200	0.22	680	SOT227B	IXYS
IXFN210N20P	200	188	0.0105				18.6	255	200	0.14	1070	SOT227B	IXYS
IXFN230N20T	200	220	0.0075				28000	378		0.138	1090	SOT227B	IXYS
IXFN180N25T	250	164	0.0129				28000	345		0.138	900	SOT227B	IXYS
IXFN102N30P	300	88	0.033				7500	224	200	0.21	600	SOT227B	IXYS
IXFN140N30P	300	110	0.024				14800	185	200	0.18	700	SOT227B	IXYS
IXFN160N30T	300	130	0.019				28000	335		0.138	900	SOT227B	IXYS
IXFN170N30P	300	138	0.0018				20	258	200	0.14	890	SOT227B	IXYS
IXFN64N50P	500	61	0.085				8700	150	200	0.18	700	SOT227B	IXYS
IXFN66N50Q2	500	66	0.080				9125	200	250	0.17	735	SOT227B	IXYS
IXFN80N50P	500	66	0.065				12700	195	200	0.18	700	SOT227B	IXYS
IXFN80N50Q2	500	80	0.06				12800	260	250	0.14	890	SOT227B	IXYS
IXFN100N50P	500	90	0.049				20000	240	200	0.12	1040	SOT227B	IXYS
IXFN72N55Q2	550	72	0.072				7200	270	250	0.14	890	SOT227B	IXYS
IXFN82N60P	600	82	0.75				23000	240	200	0.12	1040	SOT227B	IXYS
IXFN48N60P	600	40	0.14				8860	150	200	0.2	625	SOT227B	IXYS
IXFN44N60	600	44	0.13				8900	330	250	0.22	568	SOT227B	IXYS
IXFN64N60P	600	50	0.096				12000	200	200	0.18	700	SOT227B	IXYS
IXFN70N60Q2	600	70	0.08				12000	265	250	0.14	890	SOT227B	IXYS
IXKN40N60C	600	40	0.07				6800	250	650	0.43	290	SOT227B	IXYS
IXKN75N60C	600	75	0.036				13600	500	650	0.22	560	SOT227B	IXYS
IXFN32N80P	800	29	0.27					135	250	0.2		SOT227B	IXYS
IXFN38N80Q2	800	38	0.22				9500	190	250	0.17	735	SOT227B	IXYS
IXFN44N80P	800	36	0.19				12000	200	250	0.12	1200	SOT227B	IXYS
IXFN50N80Q2	800	50	0.15				13500	260	300	0.14	890	SOT227B	IXYS
IXFN60N80P	800	53	0.14				18000	250	250	0.12	1040	SOT227B	IXYS
IXKN45N80C	800	44	0.074				9200	335	550	0.33	380	SOT227B	IXYS
IXFN40N90P	900	33	0.210				14000	230	300	0.18	695	SOT227B	IXYS
IXFN52N90P	900	43	0.16				19000	308	300	0.14	890	SOT227B	IXYS
IXFN56N90P	900	56	0.135				23000	375	300	0.125	1000	SOT227B	IXYS
IXFN24N100F	1000	24	0.390				6600	195	250	0.21	600	SOT227B	IXYS
IXFN26N100P	1000	23	0.39				11900	197	300	0.210	595	SOT227B	IXYS
IXFN24N100	1000	24	0.39				8700	267	250	0.22	568	SOT227B	IXYS
IXFN32N100P	1000	27	0.32				14200	225	300	0.180	690	SOT227B	IXYS
IXFN34N100	1000	34	0.28				9200	380	180	0.18	694	SOT227B	IXYS
IXFN38N100Q2	1000	38	0.25				13500	250	300	0.14	890	SOT227B	IXYS
IXFN36N100	1000	36	0.24				9200	380	180	0.18	694	SOT227B	IXYS
IXFN44N100P	1000	37	0.22				19000	305	300	0.14	890	SOT227B	IXYS
IXFN38N100P	1000	38	0.21				24000	350	300	0.125	1000	SOT227B	IXYS
IXFN30N110P	1100	25	0.36				13600	235	300	0.180	695	SOT227B	IXYS
IXFN40N110P	1100	34	0.2600				19000	310	300	0.140	890	SOT227B	IXYS
IXFN36N110P	1100	36	0.24				23000	350	300	0.125	1000	SOT227B	IXYS
IXFN20N120P	1200	20	0.5700				11100	193	300	0.210	595	SOT227B	IXYS
IXFN26N120P	1200	23	0.46				14000	225	300	0.180	695	SOT227B	IXYS
IXFN30N120P	1200	30	0.350				19000	310	300	0.140	890	SOT227B	IXYS
IXFN32N120P	1200	32	0.310				21000	360	300	0.125	1000	SOT227B	IXYS

SOT227  
miniBLOC



Mosfet





# Power Mosfet

## High Voltage Linear Power Mosfets N-Channel

PartNumber	VDSS	ID(cont)	RDS(on)	Ciss	Qg	trr	RthJC	PD	PackageStyle	Manufacturer
	(V)	(A)	VGS = 10V ( $\Omega$ )	(pF)	(nC)	(ns)	( $^{\circ}$ C/W)	(W)		

### T0263

IXTA15N50L2	500	15	0.480	4080	123	570	0.42	300	T0263	ixys
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### T0268

IXTT30N50L2	500	30	0.200	8100	240	500	0.31	400	T0268	ixys
IXTT30N50L	500	30	0.20	10200	240	500	0.31	400	T0268	ixys
IXTT40N50L2	500	40	0.17	10400	320	500	0.23	540	T0268	ixys
IXTT30N60L2	600	30	0.24	10700	335	710	0.23	540	T0268	ixys

### T0220

IXTP15N50L2	500	15	0.480	4080	123	570	0.42	300	T0220	ixys
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### T03P / T0247

IXTH15N50L2	500	15	0.480	4080	123	570	0.25	300	T0247	ixys
IXTH24N50L	500	24	0.3	2500	160	500	0.31	400	T0247	ixys
IXTH30N50L2	500	30	0.200	8100	240	500	0.31	400	T0247	ixys
IXTQ30N50L2	500	30	0.200	8100	240	500	0.31	400	T03P	ixys
IXTH30N50L	500	30	0.20	10200	240	500	0.31	400	T0247	ixys
IXTQ30N50L	500	30	0.20	10200	240	500	0.31	400	T03P	ixys
IXTH40N50L2	500	40	0.17	10400	320	500	0.23	540	T0247	ixys
IXTQ40N50L2	500	40	0.17	10400	320	500	0.23	540	T03P	ixys
IXTH30N60L2	600	30	0.24	10700	335	710	0.23	540	T0247	ixys
IXTQ30N60L2	600	30	0.24	10700	335	710	0.23	540	T03P	ixys
IXTH12N100L	1000	12	1.3	2500	155	1000	0.31	400	T0247	ixys

### Plus247

IXTX90N25L2	250	90	0.033	23000	640	266	0.13	960	Plus247	ixys
IXTX46N50L	500	46	0.16	7000	260	600	0.18	700	Plus247	ixys
IXTX60N50L2	500	60	0.10	24000	610	980	0.13	960	Plus247	ixys
IXTB62N50L	500	62	0.1	11500	550	500	0.156	800	Plus247	ixys
IXTX22N100L	1000	22	0.6	7050	270	1000	0.18	700	Plus247	ixys
IXTB30N100L	1000	30	0.45	13200	545	1000	0.156	800	Plus247	ixys
IXTX17N120L	1200	17	0.90	8300	155	1830	0.18	700	Plus247	ixys
IXTX8N150L	1500	8	3.6	8000	250	1700	0.18	700	Plus247	ixys

### T0264

IXTK90N25L2	250	90	0.033	23000	640	266	0.13	960	T0264	ixys
IXTK46N50L	500	46	0.16	7000	260	600	0.18	700	T0264	ixys
IXTK60N50L2	500	60	0.10	24000	610	980	0.13	960	T0264	ixys
IXTK22N100L	1000	22	0.6	7050	270	1000	0.18	700	T0264	ixys
IXTK17N120L	1200	17	0.90	8300	155	1830	0.18	700	T0264	ixys
IXTK8N150L	1500	8	3.6	8000	250	1700	0.18	700	T0264	ixys

### SOT227B

IXTN90N25L2	250	90	0.033	23000	640	266	0.17	735	SOT227B	ixys
IXTN46N50L	500	46	0.16	7000	260	600	0.18	700	SOT227B	ixys
IXTN60N50L2	500	60	0.10	24000	610	980	0.17	735	SOT227B	ixys
IXTN62N50L	500	62	0.1	11500	550	500	0.156	800	SOT227B	ixys
IXTN22N100L	1000	22	0.6	7050	270	1000	0.18	700	SOT227B	ixys
IXTN30N100L	1000	30	0.45	13700	545	1000	0.156	800	SOT227B	ixys
IXTN17N120L	1200	15	0.90	8300	155	1830	0.23	540	SOT227B	ixys
IXTN8N150L	1500	7.5	3.6	8000	250	1700	0.23	545	SOT227B	ixys

## High Voltage Depletion Mosfets

PartNumber	VDSS	ID(cont)	RDS(on)	VGS(off)	Ciss	Crss	Qg	PD	PackageStyle	Manufacturer
	max (V)	TC=25 $^{\circ}$ C (A)	VGS=10V ( $\Omega$ )	max (V)	typ (pF)	typ (pF)	typ (nC)	typ (W)		

### T0252

IXTY02N50D	500	0,2	30	-5	120	5	5	25	T0252	ixys
IXTY01N100D	1000	0,1	110	-5	120	3	5	25	T0252	ixys

### T0268

IXTT20N50D	500	20	0,33	-3,5	2500	100	0,31	400	T0268	ixys
IXTT10N100D	1000	10	1,4	-35,000	2500	90	0,31	400	T0268	ixys

### T0251

IXTU02N50D	500	0,2	30	-5	120	5	5	25	T0251	ixys
IXTU01N100D	1000	0,1	110	-5	120	3	5	25	T0251	ixys

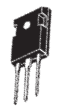
### T0220

IXTP02N50D	500	0,2	30	-5	120	5	5	25	T0220	ixys
IXTP01N100D	1000	0,1	110	-5	120	3	5	25	T0220	ixys

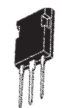
### T0247

IXTH20N50D	500	20	0,33	-3,5	2500	100	0,31	400	T0247	ixys
IXTH10N100D	1000	10	1,4	-3,500	2500	90	0,31	400	T0247	ixys

T0247

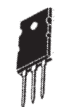


PLUS247



Mosfet

T0264



SOT227B



T0252



T0268



T0251



TO 220



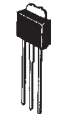
T0247



Protected Mosfets N-Channel / Low Side

PartNumber	CHANNEL	VCC	Iout	RDS(on)	td(on)	tr	td(off)	tf	PD (W)	PackageStyle	Manufacturer
		[V]	[A]	VGS=10V (Ω)	typ [μs]	typ [μs]	typ [μs]	typ [μs]			
<b>S08</b>											
uPD166100GR	1	40	0,8	0,160	120	80	200	80	1,5	S08	NEC
uPD166101GR	2	40	0,8	0,160	120	80	200	80	2,0	S08	NEC
HAF2026RJ	1	60	0,6	0,300	2,9	11	0,9	1	1,5	S08	Renesas
HAF2015RJ	1	60	2	0,200	4,2	20	1,0	2	2,0	S08	Renesas
<b>S020</b>											
uPD166104 *	2	18	1,4	0,091	35	35	30	15	2,5	S020	NEC
<b>T0252</b>											
HAF2007(S) *	1	60	5	0,075	2,8	12,4	15	11	20	T0252	Renesas
<b>T0263</b>											
HAF2012(S) *	1	60	20	0,043	7,5	29	34	26	50	T0263	Renesas
HAF2017(S) *	1	60	20	0,053	8,7	44,6	2	2,6	50	T0263	Renesas
HAF2011(S) *	1	60	40	0,020	10,7	66	15,5	19	50	T0263	Renesas
HAF2021(S) *	1	60	50	0,012	20	75	3	2,6	50	T0263	Renesas
<b>T0251</b>											
HAF2007(L) *	1	60	5	0,075	2,8	12,4	15	11	20	T0251	Renesas
<b>T0262</b>											
HAF2012(L) *	1	60	20	0,043	7,5	29	34	26	50	T0262	Renesas
HAF2017(L) *	1	60	20	0,053	8,7	44,6	2	2,6	50	T0262	Renesas
HAF2011(L) *	1	60	40	0,020	10,7	66	15,5	19	50	T0262	Renesas
HAF2021(L) *	1	60	50	0,012	20	75	3	2,6	50	T0262	Renesas
<b>T0220</b>											
HAF2001 *	1	60	20	0,043	7,5	29	34	26	50	T0220	Renesas
HAF2014 *	1	60	40	0,020	10,7	66	15,5	19	50	T0220	Renesas
<b>T0220 iso</b>											
HAF2002 *	1	60	20	0,043	7,5	29	34	26	50	T0220 iso	Renesas
HAF2005 *	1	60	40	0,020	10,7	66	15,5	19	50	T0220 iso	Renesas

\* Logic Level device



Mosfet

Protected Mosfets P-Channel / High Side

PartNumber	CHANNEL	VCC	ID(cont)	RDS(on)	td(on)	tr	td(off)	tf	PD (W)	PackageStyle	Manufacturer
		(V)	(A)	VGS = 10V (Ω)	typ. [μs]	typ. [μs]	typ. [μs]	typ. [μs]			
<b>S08</b>											
HAF1010RJ *	1	60	5	0,200	2	7,6	3,2	3,2	2,5	S08	Renesas
<b>T0263</b>											
HAF1002S *	1	60	15	0,090	7,5	36	32	29	50	T0263	Renesas
HAF1004S *	1	60	5	0,020	2	7,6	3,2	3,2	50	T0263	Renesas
HAF1008S *	1	60	20	0,054	5,7	26	6,5	9	50	T0263	Renesas
HAF1009S *	1	60	40	0,027	10,6	45	12	13	50	T0263	Renesas
<b>T0262</b>											
HAF1002L *	1	60	15	0,090	7,5	36	32	29	50	T0262	Renesas
HAF1004L *	1	60	5	0,020	2	7,6	3,2	3,2	50	T0262	Renesas
HAF1008L *	1	60	20	0,054	5,7	26	6,5	9	50	T0262	Renesas
HAF1009L *	1	60	40	0,027	10,6	45	12	13	50	T0262	Renesas
<b>T0220</b>											
HAF1001 *	1	60	15	0,090	7,5	36	32	29	50	T0220	Renesas

\* Logic Level device

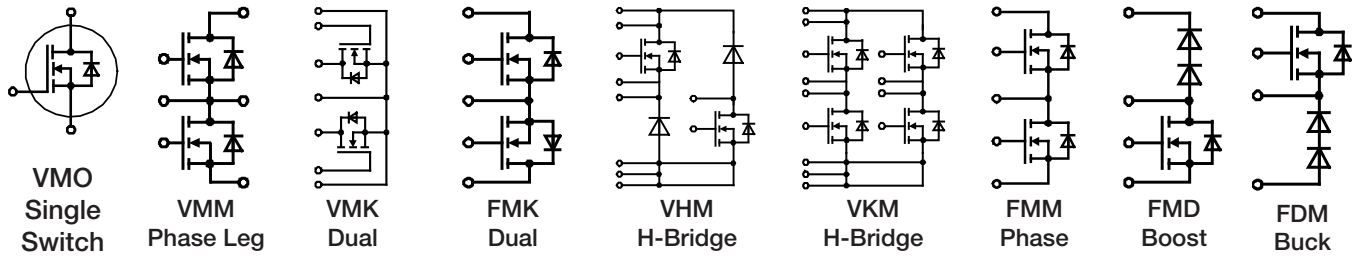
Protected Mosfet, N-Channel with Charge Pump / High Side

PartNumber	CHANNEL	VCC	Iout	RDS(on)	td(on)	tr	td(off)	tf	PD (W)	PackageStyle	Manufacturer
		[V]	[A]	VGS=10V (Ω)	typ [μs]	typ [μs]	typ [μs]	typ [μs]			
<b>S08</b>											
uPD166005 1)	1	16	1,5	0,100	33	70		20	2	S08	NEC
<b>T0252</b>											
uPD166007T1F	1	28	30	0,010	200	250	150	100	59	T0252-5	NEC
uPD166009 1)	1	28	30	0,010	200	150	150	100	59	T0252-5	NEC
uPD166010 1)	1	28	30	0,010	200	150	150	100	59	T0252-5	NEC
<b>SOP12</b>											
uPD166011 1)	2	28	5,5	0,085	120	120	135		2	SOP12	NEC
uPD166013 1)	2	28	4	0,060		120	135		2	SOP12	NEC
<b>SOP24</b>											
uPD166014 1)	4	28	4	0,060		120	135			SOP24	NEC

1) New products, all datas are preliminary, please refer to the datasheet!



# Mosfet Modules



Suffix „F“ = HiPerFET™ Technology with Fast Intrinsic

Part Type	V <sub>DSS</sub>	I <sub>D25</sub> T <sub>C</sub> = 25°C	I <sub>D80</sub> T <sub>C</sub> = 80°C	R <sub>DSon</sub> typ. T <sub>J</sub> = 25°C	t <sub>r</sub>	t <sub>f</sub>	R <sub>thJC</sub>	NTC	Fig. No.	Package style Outline drawings on pages O-30...O-52
> New	V	A	A	mΩ	ns	ns	K/W			
<b>Single Switch Modules</b>										
VMO 550-01F	100	590	not recommended for new designs						X128d	X024a <b>ISOPLUS i4-</b> Weight = 6 g
VMO 650-01F		690						X128d		
VMO 1200-01F		1245	930	1.35	200	500	0.039	X130d		
VMO 580-02F	200	580	not recommended for new designs						X130d	X102 <b>ECO-PAC2</b> Weight = 24 g
VMO 1600-02P		1900	1600	1.40			0.03	X130d		
VMO 60-05F	500	60	not recommended for new designs					X125f		
<b>Dual Switch Modules – Common Source Configuration</b>										
VMK 165-007T	70	165	not recommended for new designs						X125a	X125a <b>TO-240AA</b> Weight = 90 g
FMK 75-01F	100	75	50 / 90°C	21	60	60	0.5	X024a		
VMK 90-02T2	200	84	not recommended for new designs					X125a		
<b>MOSFET Modules – Phase Leg Configuration</b>										
FMM 75-01F	100	75	50 / 90°C	21	60	60	0.5		X024a	X125f <b>TO-240AA</b> Weight = 90 g
VMM 650-01F		680	not recommended for new designs						X130e	
VMM 45-02F	200	45							X125g	
VMM 85-02F		84							X127a	
VMM 300-03F	300	290							X128a	
VMM 90-09F	900	85	65	76	140	180	0.08		X130e	
<b>MOSFET Modules – H Bridge Configuration</b>										
VHM 40-06P1*	600	38	25/90°C	70	10	95	0.45		X102	X125g <b>TO-240AA</b> Weight = 90 g
VKM 60-01P1	100	75	60	25	60	60	0.5			
VKM 40-06P1*	600	38	25	70	10	95	0.45			
<b>MOSFET Modules – Boost Configuration</b>										
FMD 21-05QC	500	21	15 / 90°C	180	16	30	1.5		X024a	X127a <b>Y4-M5</b> Weight = 150 g
FMD 40-06KC *	600	38	25 / 90°C	60	contact factory					
> FMD 15-06KC5 *		15		165	under development					
> FMD 47-06KC5 *		47	32 / 90°C	40	under development					
<b>MOSFET Modules – Buck Configuration</b>										
> FDM 15-06KC5 *	600	15		165	under development				X024a	
> FDM 47-06KC5 *		47		45	under development					

\* CoolMOS™ is a trademark of Infineon Technolo-

X130d  
Weight = 250 g

Y3



X130e  
Weight = 250 g

Y3



X128a  
Weight = 250 g

Y3



X128d  
Weight = 250 g

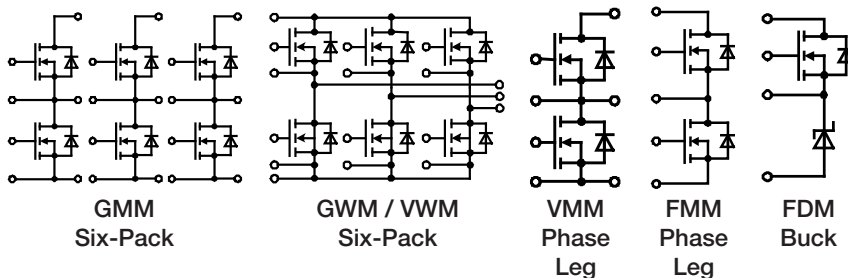
Y3

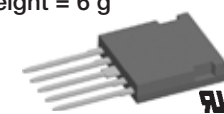
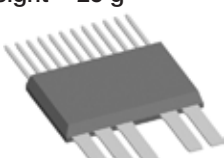




Mosfet

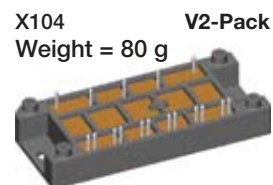
## Trench MOSFET Technology

- very low  $R_{DSon}$
- fast body diode



Part Type	$V_{DSS}$	$I_{D25}$ $T_C = 25^\circ C$	$I_{D90}$ $T_C = 90^\circ C$	$R_{DSon}$ typ. $T_J = 25^\circ C$	$t_r$	$t_f$	$R_{thJC}$	Fig. No.	Package style Outline drawings on pages O-30...O-52	
> New	V	A	A	mΩ	ns	ns	K/W			
<b>Phase Leg Configuration</b>										
FMM 150-0075P	75	150	120	4.7	60	60	0.60	X024a	X024a <b>ISOPLUS i4-</b>	
VMM 1500-0075P	75	1500	1200 / 80°C	0.55	200	170	0.06	X130a	Weight = 6 g	
FMM 75-01F	100	75	50	18	60	60	0.50	X024a		
VMM 1000-01P	100	1000	800 / 80°C	0.75	100	100	0.06	X130a		
FMM 65-015P	150	65	50	13	100	80	0.60	X024a		
<b>ISOPLUS-DIL™</b>										
<b>Six-Pack Configuration</b>										
VWM 350-0075P	75	340	250 / 80°C	2.3	contact factory		0.26	X104	X026a	
VWM 200-01P	100	210	170 / 80°C	3.6	contact factory		0.26	X104	Weight = 25 g	
GWM 220-004P3-SL	40	190	145	2.0	85	90	0.90	X026a		
GWM 220-004P3-SMD		190	145	2.0	85	90	0.90	X026c		
> GWM 220-004X1-SL	under development								X026a	
> GWM 220-004X1-SMD	under development								X026c	
> GWM 160-0055X1-SL	55	160	120	2.7	125 *	120 *	0.90	X026a	X026c <b>ISOPLUS-DIL™</b>	
> GWM 160-0055X1-SMD		160	120	2.7	125 *	120 *	0.90	X026c	Weight = 25 g	
> GWM 120-0075X1-SL	75	under development							X026a	
> GWM 120-0075X1-SMD		under development							X026c	
> GWM 100-0085X1-SMD	85	contact factory							X026c	
> GWM 100-01X1-SL	100	90	68	7.5	95 *	55 *	0.90	X026a		
> GWM 100-01X1-SMD		90	68	7.5	95 *	55 *	0.90	X026c		
* inductive load										
> GMM 3x160-0055X2-SMD	55	under development							X026d	X026d <b>ISOPLUS-DIL™</b>
> GMM 3x120-0075X2-SMD	75	under development							X026d	Weight = 25 g
<b>Buck Configuration</b>										
FDM 100-0045SP Mosfet/Diode	55 / 45	100 / 110	80 / 80	5.7 **	115 **	155 **	1.00	X024a	X104 <b>V2-Pack</b>	

\*\* only MOSFET data



MOSFET