





# POWER MOSFETS

## HERMETIC POWER MOSFETS

### N-CHANNEL, SURFACE MOUNT




TYPE NUMBER	DRAIN TO SOURCE BREAKDOWN VOLTAGE $V_{(BR)DSS}$	CONTINUOUS DRAIN CURRENT $I_D$ Amps		MAXIMUM POWER DISSIPATION $P_D$ Watts	STATIC DRAIN TO SOURCE ON RESISTANCE $R_{DS(on)}$		MAXIMUM THERMAL RESISTANCE $R_{\theta JC}$	SIMILAR PART TYPE	PKG. STYLE
	Volts	25°C	100°C	25°C	Ohms	Amps	°C/W		
SHD218413	30	50	50	100	.012	20	0.7	ⓄMTP75N03	
SHD2181	60	45	31	200	.02	31	0.6	IRFM054	
SHD2182	100	38	24	200	.055	24	0.6	IRFM150	
SHD2183	200	30	19	200	.85	19	0.6	IRFM250	
SHD2184	400	14	9.0	200	.30	9.0	0.6	IRFM350	
SHD2185	500	12	7.75	200	.40	7.75	0.6	IRFM450	
SHD2186	800	7.1	4.5	200	1.2	4.5	0.6	IRFAE50	
SHD2187	900	6.2	4.0	200	1.6	4.0	0.6	IRFAF50	
SHD2188	1000	5.6	3.5	200	2.0	3.5	0.6	IRFAG50	SHD-5
SHD218413A	30	50	50	100	.012	20	0.7	ⓄMTP75N03	
SHD2181A	60	45	31	200	.02	21	0.6	IRFM054	
SHD2182A	100	38	24	200	.055	24	0.6	IRFM150	
SHD2183A	200	30	19	200	.085	19	0.6	IRFM250	
SHD2184A	400	14	9.0	200	.30	9.0	0.6	IRFM350	
SHD2185A	500	12	7.75	200	.40	7.75	0.6	IRFM450	
SHD2186A	800	7.1	4.5	200	1.2	4.5	0.6	IRFAE50	
SHD2187A	900	6.2	4.0	200	1.6	4.0	0.6	IRFAF50	
SHD2188A	1000	5.6	3.5	200	2.0	3.5	0.6	IRFAG50	SHD-5A
SHD218413B	30	50	50	100	.012	20	0.7	ⓄMTP75N03	
SHD2181B	60	45	31	200	.02	21	0.6	IRFM054	
SHD2182B	100	38	24	200	.055	24	0.6	IRFM150	
SHD2183B	200	30	19	200	.085	19	0.6	IRFM250	
SHD2184B	400	14	9.0	200	.30	9.0	0.6	IRFM350	
SHD2185B	500	12	7.75	200	.40	7.75	0.6	IRFM450	
SHD2186B	800	7.1	4.5	200	1.2	4.5	0.6	IRFAE50	
SHD2187B	900	6.2	4.0	200	1.6	4.0	0.6	IRFAF50	
SHD2188B	1000	5.6	3.5	200	2.0	3.5	0.6	IRFAG50	SHD-5B
SHD239501	60	45	31	200	.02	31	0.37	IRFM054	
SHD239502	100	38	24	200	.055	24	0.37	IRFM150	
SHD239601	100	75	50	300	.025	37.5	0.27	IXTM75N10	
SHD239602	100	75	50	300	.025	37.5	0.27	IXFM75N10	
SHD239503	200	30	19	200	.085	19	0.37	IRFM250	
SHD239603	200	50	30	300	.05	25	0.27	IXTM50N20	
SHD239604	200	50	30	300	.05	25	0.27	IXFM50N20	
SHD239504	400	14	9.0	200	.30	9.0	0.37	IRFM350	
SHD239505	500	12	7.75	200	.40	7.75	0.37	IRFM450	
SHD239605	500	24	18	300	.23	12	0.27	IXTM24N50	
SHD239606	500	24	18	300	.23	12	0.27	IXFM24N50	
SHD239607	600	20	12	300	.35	10	0.27	IXTM20N60	
SHD239608	600	20	12	300	.35	10	0.27	IXFM20N60	
SHD239506	800	7.1	4.5	200	1.2	4.5	0.34	IRFAE50	
SHD239609	800	13	8.0	300	.80	6.5	0.27	IXTM13N80	
SHD239610	800	13	8.0	300	.80	6.5	0.27	IXFM13N80	
SHD239507	900	6.2	4.0	200	1.6	4.0	0.34	IRFAF50	
SHD239611	900	12	7.2	300	.90	6.0	0.27	IXTM12N90	
SHD239612	900	12	7.2	300	.90	6.0	0.27	IXFM12N90	
SHD239508	1000	5.6	3.5	200	2.0	3.5	0.34	IRFAG50	
SHD239613	1000	12	7.2	300	1.05	6.0	0.27	IXTM12N100	
SHD239614	1000	12	7.2	300	1.05	6.0	0.27	IXFM12N100	SHD-6

Ⓞ PRELIMINARY INFORMATION

## HERMETIC POWER MOSFETS

### P-CHANNEL, SURFACE MOUNT

	DRAIN TO	CONTINUOUS	MAXIMUM	STATIC	MAXIMUM	SIMILAR	
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TYPE NUMBER	SOURCE BREAKDOWN VOLTAGE $V_{(BR)DSS}$	DRAIN CURRENT $I_D$		POWER DISSIPATION $P_D$	DRAIN TO SOURCE ON RESISTANCE $R_{DS(on)}$		THERMAL RESISTANCE $R_{\theta JC}$	PART TYPE	PKG. STYLE
	Volts	25°C	100°C	25°C	Ohms	Amps	°C/W		
SHD2189	-100	-18	-11	125	.20	-11	1.0	IRF9140	 SHD-5
SHD21810	-200	-11	-7	125	.50	-7	1.0	IRF9240	
SHD2189A	-100	-18	-11	125	.20	-11	1.0	IRF9140	 SHD-5A
SHD21810A	-200	-11	-7	125	.50	-7	1.0	IRF9240	
SHD2189B	-100	-18	-11	125	.20	-11	1.0	IRF9140	 SHD-5B
SHD21810B	-200	-11	-7	125	.50	-7	1.0	IRF9240	

**Notes:**

-All ratings are at  $T_C = 25^\circ\text{C}$  unless otherwise specified.

-Maximum operating and storage temperature  $-55^\circ\text{C}$  to  $+150^\circ\text{C}$ .

**PINOUTS**

DEVICE TYPE	PIN 1	PIN 2	PIN 3
MOSFET - SHD-5, SHD-5A, SHD-5B, LCC-3P, SHD-6	DRAIN	SOURCE	GATE

**Note:** Ceramic seals and GlidCop® leads available.