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FETMOD™ MOSFET POWER MODULES

Major Ratings and Characteristics at $T_C = 25^\circ\text{C}$ (T_J Maximum = 150°C)

MAXIMUM RATINGS							ELECTRICAL CHARACTERISTICS		
							Static		
Type	V_{DSS} Volts	I_D^* Amperes	I_{DM} Amperes	P_T Watts	$R_{\theta JC}$ $^\circ\text{C/W}$	V_{RMS} Isolation Volts	I_D Amperes	$R_{DS(on)}$ Ω	$R_{DS(on)}$ @ 150°C Ω
Single FETMOD™									
JS524575/JS525075	450/500	45	300	415	.3	2500	75	0.11	0.22
JS224510/JS225010	450/500	75	300	830	.15	2500	100	0.075	0.15
Dual FETMOD™									
JD224503/JD225003	450/500	20	90	250	.5	2500	30	0.3	0.6
JD224505/JD225005	450/500	30	150	310	.41	2500	50	0.2	0.32
JD224505S	450	35	150	300	.41	2500	50	0.12	.24
Split-Dual FETMOD™									
JT224505	450	40	150	420	.3	2500	50	0.12	0.24
Quad-Mos FETMOD™									
JBF225A1/JBF230A1	250/300	15	45	125	1.0	2500	15	0.28	0.56
Six-Mos FETMOD™									
JEF245A1/JEF250A1	450/500	10	45	125	1.0	2500	15	0.6	1.2
Chopper FETMOD™									
JQ224505/JQ225005	450/500	35	150	360	.35	2500	50	.15	.3
JR224505/JR225005	450/500	40	150	420	.3	2500	50	.14	.28
JR224575/JR225075	450/500	50	225	500	.25	2500	75	.093	.186
JR224510/JR225010	450/500	65	300	620	.2	2500	100	.07	.14

Hybrid IC for Driving FETMOD: M57918L, M57919L, M57924L.

* I_{DC} Maximum at $T_J = 150^\circ\text{C}$

					FREE WHEEL DIODE CHARACTERISTICS			THERMAL AND MECHANICAL CHARACTERISTICS		
Dynamic								Weight	Outline Drawings	
$V_{GS}=0V, V_{DS}=10V, f=1mHZ$					I_s			Grams	Number Page	
C_{iss} pf	C_{oss} pf	C_{rss} pf	t_{on} ns	t_{off} ns	Amperes Maximum	V_{SD} Volts	t_{rr} ns			
20000	3500	1000	500	1500	45	2.5	300	90	84	59
24000	5000	2000	750	1600	70	2.5	200	210	85	60
6000	1500	600	400	900	30	2.5	200	210	86	60
9000	2000	700	500	1300	50	2.5	200	250	87	60
13200	2000	600	500	1900	35	2.5	200	250	88	61
9000	2500	1000	500	1300	40	2.5	200	250	89	61
3000	1500	600	400	600	15	2.5	180	—	90	61
3000	1500	250	500	900	10	2.5	170	90	91	62
13000	2500	1000	500	900	50	1	150	250	92	63
9000	2500	1000	500	1300	5	1.2	150	250	93	63
20000	4500	1800	600	1900	7.5	1.2	180	250	93	63
27000	6000	2400	500	1900	10	1.2	180	260	93	63