

T-25-23

CRYDOM

PART NUMBER IDENTIFICATION

Series Type	Current	Circuit Type	Voltage	
M50	60 - 60 Amps	(see schematic diagrams)	400 (120 Vac)	1200 (480 Vac)
	100 - 100 Amps	Example: TB	600 (240 Vac)	1400 (530 Vac)
			1000 (380 Vac)	1600 (600 Vac)

Example: M50100TB1200

ELECTRICAL SPECIFICATIONS

SYMBOL	SPECIFICATION	M5060	M50100
I_D	Maximum DC Output Current @ $T_c = 85^\circ\text{C}$ (A)	60	100
V_F	Maximum Voltage Drop @ Amps Peak	1.35V @ 60 A	1.2V @ 100A
T_J	Operating Junction Temperature Range	-40°C to +125°C	
V_{RRM}	Repetitive Peak Reverse Voltage (AC Line)	— 400 (120 Vac) — — 600 (240 Vac) — — 1000 (380 Vac) — — 1200 (480 Vac) — — 1400 (530 Vac) — — 1600 (600 Vac) —	
I_{TSM}	Maximum Non-Repetitive Surge Current (A) [1/2 Cycle, 60Hz]	800	1500
I_{FT}	Maximum I ² T for Fusing (A ² sec) [t=8.3ms]	2650	9350
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.45°C/W	0.3°C/W
V_{ISOL}	Isolation Voltage	2500 V _{RMS}	

Series M50

60-100Amp

DIODE MODULES

- High Surge Current Rectifier Circuits
- Up to 1600 Volt Blocking Standard

Single- and three-phase diode circuits incorporate highly efficient thermal management to provide high surge capability, extended life, and reliable performance. Available in five circuits, all models come in an industry standard package, provide 2500 Vrms from all terminals to the baseplate, and are UL recognized (file no. E72445).

MECHANICAL

SERIES M50 CIRCUITS

All dimensions are in inches (millimeters)

