

M50 DIODE SERIES

POWER MODULES



Features

- High Surge Current Rectifier Circuits
- 5 Different Circuits to Choose from
- Up to 1600 Volt Blocking Standard
- UL Recognized E72445



SPECIFICATIONS

Electrical

Part Number	Symbol	M5060	M50100
Maximum DC Output Current (Tc= 85°C)	I _D	60 A	100 A
Maximum Voltage Drop @ Amps Peak	V _F	1.35V @ 50A	1.2V @ 100 A
Operating Junction Temperature Range	T _J	-40 - 125°C	-40 - 125°C
Repetitive Peak Reverse Voltage (AC Line Nominal) [Vpk] VRRMS	V_{RRMS}	400 (120 VAC)	
		600 (240 VAC)	
		800 (280 VAC)	
		1200 (480 VAC)	
		1400 (530 VAC)	
		1600 (600 VAC)	
Maximum Non-Repetitive Surge Current (1/2 Cycle, 60 Hz) [A]	I _{TSM}	800	1500
Maximum I ² t for Fusing (t=8.3ms)[A ² sec]	l2t	2650	9350
Maximum Thermal Resistance, Junction to Ceramic Base per Chip [°C/W]	R _{JC}	0.45°C/W	0.3°C/W
Insolation Voltage [Vrms]	V _{ISOL}	2500	

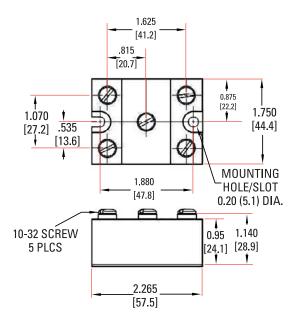
General

Weight (typical)	4.5 oz (158g)

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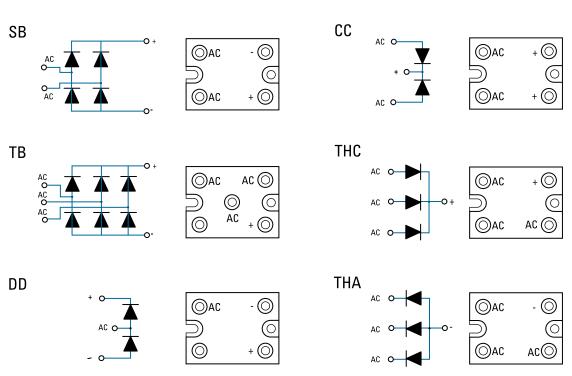
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EQUIVALENT CIRCUIT DIAGRAMS / MECHANICAL SPECIFICATIONS



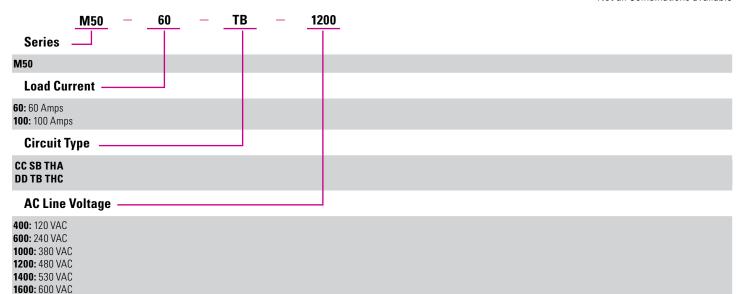
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CIRCUIT DIAGRAMS



Example: M5060TB1200

Not all Combinations available





AGENCY APPROVALS & CERTIFICATIONS







RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- · Verify all connections and replace all covers before turning on power

Failure to follow these instructions will result in death or serious injury.

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