

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

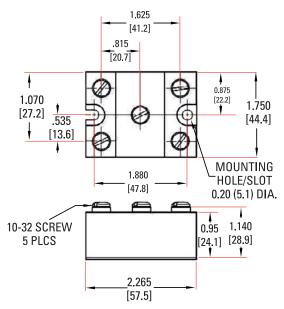
Part Number	Symbol	M5060	M50100
Maximum DC Output Current (Tc= 85°C)	I _D	60 A	100 A
Maximum Voltage Drop @ Amps Peak	V _F	1.35V @ 50A	1.2V @ 100 A
Operating Junction Temperature Range	T _J	-40 - 125°C	-40 - 125°C
Repetitive Peak Reverse Voltage (AC Line Nominal) [Vpk] VRRMS	V_{RMS}	400 (120 VAC)	
		600 (240 VAC)	
		1000 (380 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
Isolation Voltage [Vrms]	V _{ISOL}	2500	

General

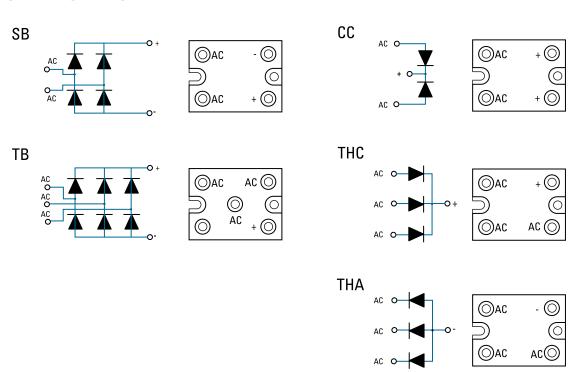
Weight (typical)	4.5 oz (158g)

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EQUIVALENT CIRCUIT DIAGRAMS / MECHANICAL SPECIFICATIONS



CIRCUIT DIAGRAMS

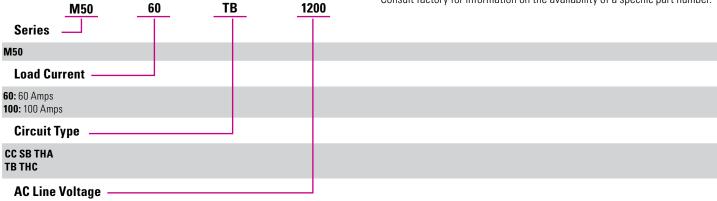


ORDERING OPTIONS

Example: M5060TB1200

NOTE: Not all combinations are available.

Consult factory for information on the availability of a specific part number.



400: 120 VAC **600**: 240 VAC **1000**: 380 VAC **1200**: 480 VAC **1400**: 530 VAC **1600**: 600 VAC



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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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA

CONTACT US

Americas

+1 (877) 502 5500 — Option 2 sales.crydom@sensata.com

Europe, Middle East & Africa

+44 (1202) 416170 ssr-info.eu@sensata.com

Asia Pacific

sales.isasia@list.sensata.com China +86 (21) 2306 1500 Japan +81 (45) 277 7117 Korea +82 (31) 601 2004 India +91 (80) 67920890 Rest of Asia +886 (2) 27602006 ext 2808