

Features

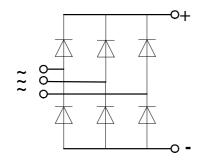
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Blocking voltage:800 to 1800V
- Glass passivated chip

Applications

- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers

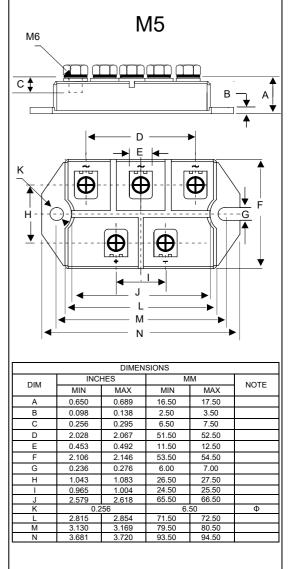
MCC Part Number	V _{RRM}	V _{RSM}
MD250S08M5	800V	900V
MD250S12M5	1200V	1300V
MD250S16M5	1600V	1700V
MD250S18M5	1800V	1900V





Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

250 Amp GLASS PASSIVATED THREE PHASE RECTIFIER BRIDGE 800~1800 Volts





Maximum Ratings

Symbol	Conditions	Values	Units
lD	Three phase, full wave Tc=100°C	250	А
IFSM	t=10mS Tvj =45℃	2500	А
i ² t	t=10mS Tvj =45℃	31250	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	°C
Tstg		-40 to +125	°C
Mt	To terminals(M6)	5±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	194	g

Thermal Characteristics

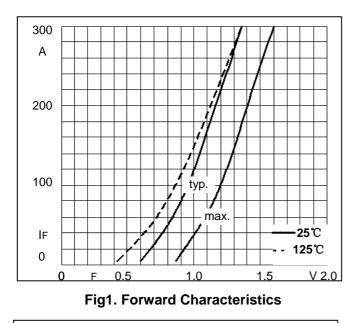
Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.36	°C/W
Rth(c-s)	Module (Approximately)	0.02	°C/W

Electrical Characteristics

Symbol	ol Conditions		Values	5	Units
Symbol	Conditions	Min.	Тур.	Max.	Units
Vfm	T=25℃ IF =300A		1.35	1.60	V
Ird	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM		_	0.5 6	mA mA



Performance Curves



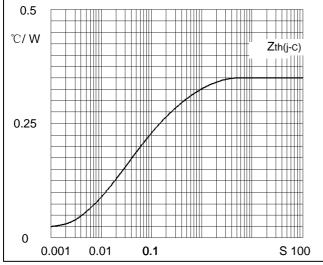


Fig3. Transient thermal impedance

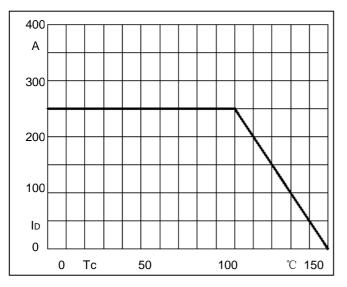


Fig5.Forward Current Derating Curve

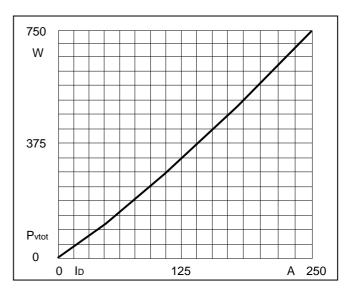


Fig2. Power dissipation

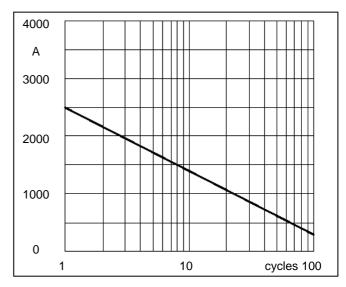


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information

Device	Packing
Part Number-BP	Bulk: 10PCS/BOX ;100PCS/CTN

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