

Micro Commercial Components



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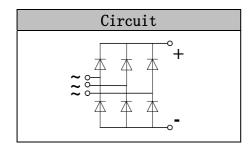
Features

- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Blocking Voltage:800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip

Applications

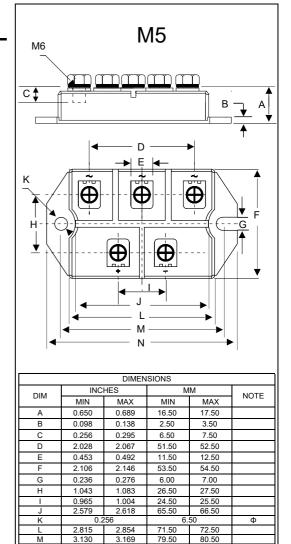
- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers





MD250S08M5 MD250S12M5 MD250S16M5 MD250S18M5

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





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Module Type

TYPE	VRRM	Vrsm
MD250S08M5	800V	900V
MD250S12M5	1200V	1300V
MD250S16M5	1600V	1700V
MD250S18M5	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units	
lD	Three phase, full wave Tc=100℃	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 Cond	Conditions	Values			Units
	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



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Performance Curves

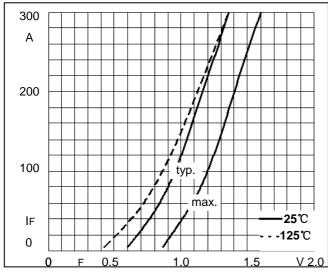


Fig1. Forward Characteristics

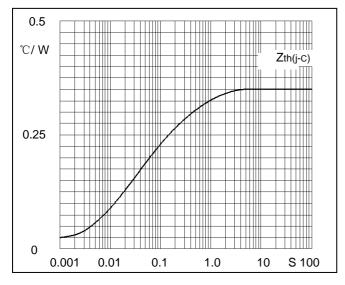


Fig3. Transient thermal impedance

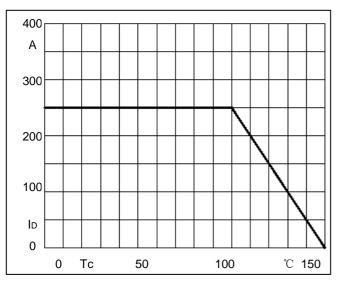


Fig5.Forward Current Derating Curve

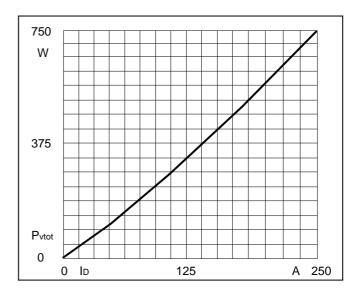


Fig2. Power dissipation

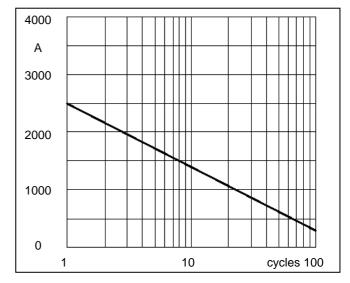


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information :

Device	Packing
Part Number-BP	Bulk: 6PCS/BOX ;60PCS/CTN

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