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MD200S08M3 MD200S12M3 MD200S16M3 MD200S18M3

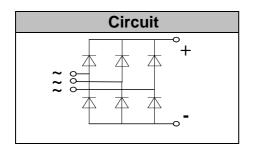
# **Features**

- 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

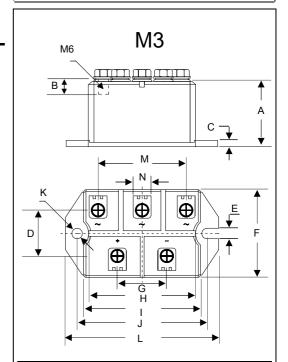
# **Applications**

- Three phase rectifiers for power supplies
- · Rectifiers for DC motor field supplies
- Input rectifiers for variable frequency drives





# 200 Amp GLASS PASSIVATED THREE PHASE RECTIFIER BRIDGE 800~1800 Volts



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	1.169	1.193	29.70	30.30	
В	.264	.287	6.70	7.30	
С	.118	.130	3.00	3.30	
D	1,05	1.07	26.70	27.30	
Е	.244	.268	6.20	6.80	
F	2.114	2.138	53.70	54.30	
G	.972	.996	24.70	25.30	
Н	2.587	2.610	65.70	66.30	
	2.823	2.846	71.70	72.30	
J	3.138	3.161	79.70	80.30	
K	.256		6.50		Ø
Ĺ	3.689	3.713	93.70	94.30	
M	2.035	2.059	51.70	52.30	
N	.460	.484	11.70	12.30	



**Module Type** 

TYPE	VRRM	Vrsm
MD200S08M3	800V	900V
MD200S12M3	1200V	1300V
MD200S16M3	1600V	1700V
MD200S18M3	1800V	1900V

**Maximum Ratings** 

Symbol	Conditions	Values	Units	
ID	Three phase, full wave Tc=100°C	200	Α	
IFSM	t=10mS Tvj =45℃	2240	А	
i <sup>2</sup> t	t=10mS Tvj =45℃	25000	A <sup>2</sup> s	
Visol	a.c.50HZ;r.m.s.;1min	3000	V	
Tvj		-40 to +150	$^{\circ}$ C	
Tstg		-40 to +125	$^{\circ}$ C	
Mt	To terminals(M6)	5±15%	Nm	
Ms	To heatsink(M6)	5±15%	Nm	
Weight	Module (Approximately)	230	g	

## **Thermal Characteristics**

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.45	°C/W
Rth(c-s)	Module(Approximately)	0.025	°C/W

### **Electrical Characteristics**

Symbol	Conditions	Values			Linito
		Min.	Тур.	Max.	Units
VFM	T=25℃ IF =300A	_	1.45	1.70	V
IRD	Tvj=25°C VRD=VRRM Tvj=150°C VRD=VRRM	_	_	0.5 6	mA mA



### **Performance Curves**

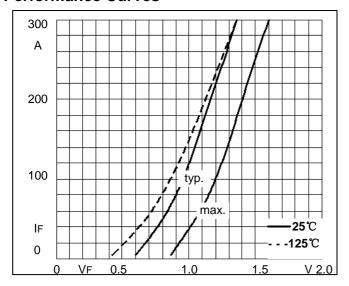


Fig1. Forward Characteristics

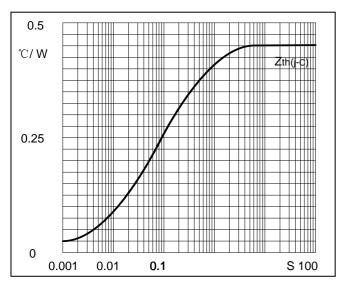
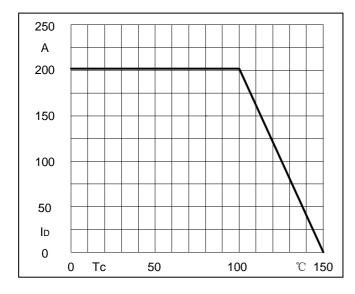


Fig3. Transient thermal impedance



**Fig5.Forward Current Derating Curve** 

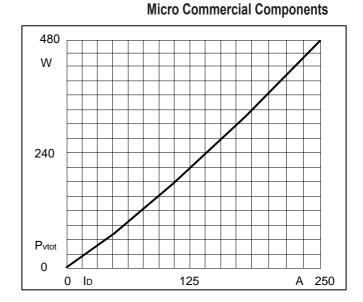


Fig2. Power dissipation

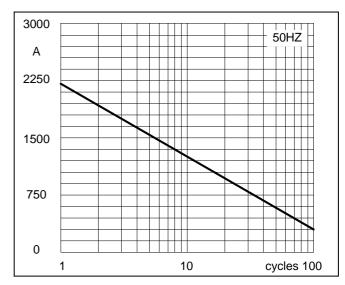


Fig4. Max Non-Repetitive Forward Surge Current



### **Ordering Information:**

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

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