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MD130S08M3 MD130S12M3 MD130S16M3 MD130S18M3

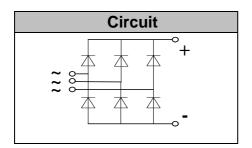
# **Features**

- 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

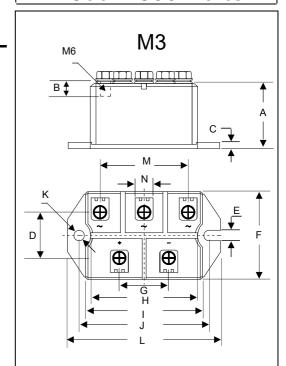
# **Applications**

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





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



			ISIONS		
DIM	INCHES		N.	MM	
	MIN	MAX	MIN	MAX	NOTE
Α	1.161	1.201	29.50	30.50	
В	0.256	0.295	6.50	7.50	
С	0.110	0.138	2.80	3.50	
D	1.043	1.083	26.50	27.50	
Е	0.236	0.276	6.00	7.00	
F	2.106	2.146	53.50	54.50	
G	0.965	1.004	24.50	25.50	
Н	2.579	2.618	65.50	66.50	
I	2.815	2.854	71.50	72.50	
J	3.130	3.169	79.50	80.50	
K	0.256		6.50		Ф
L	3.681	3.720	93.50	94.50	
M	2.028	2.067	51.50	52.50	
N	0.453	0.492	11.50	12.50	



**Module Type** 

TYPE	VRRM	Vrsm
MD130S08M3	800V	900V
MD130S12M3	1200V	1300V
MD130S16M3	1600V	1700V
MD130S18M3	1800V	1900V

**Maximum Ratings** 

Symbol	Conditions	Values	Units	
ID	Three phase, full wave Tc=100°C	130	А	
IFSM	t=10mS Tvj =45°C	1200	А	
i <sup>2</sup> t	t=10mS Tvj =45°C	7200	$A^2s$	
Visol	a.c.50HZ;r.m.s.;1min	3000	V	
Tvj		-40 to +150	${\mathbb C}$	
Tstg		-40 to +125	${\mathbb C}$	
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	0.90	°C/W
Rth(c-s)	Module(Approximately)	0.03	°C/W

### **Electrical Characteristics**

Symbol	Conditions	Values			Linito
		Min.	Тур.	Max.	Units
VFM	T=25℃ IF =300A	_	1.58	1.80	V
IRD	Tvj=25°C VRD=VRRM Tvj=150°C VRD=VRRM	_	_	0.3 5	mA mA



#### **Performance Curves**

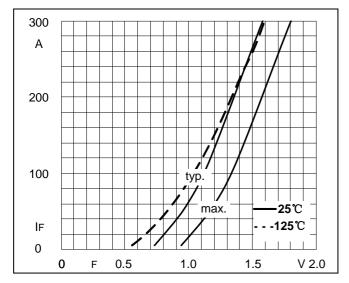


Fig1. Forward Characteristics

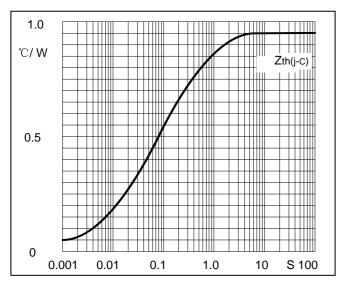
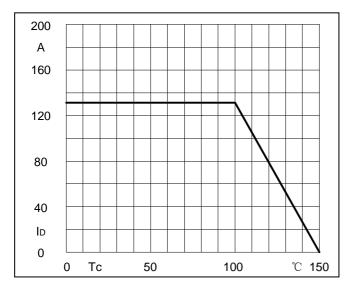


Fig3. Transient thermal impedance



**Fig5.Forward Current Derating Curve** 

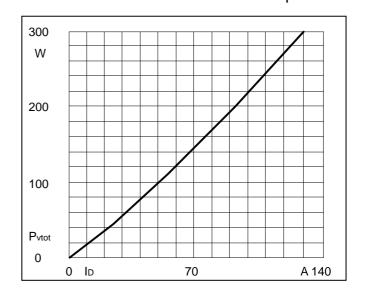


Fig2. Power dissipation

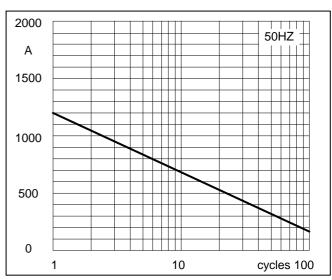


Fig4. Max Non-Repetitive Forward Surge Current



## **Ordering Information:**

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

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