



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 USA Tel:818-701-4933 MD60S08M2 MD60S12M2 MD60S16M2 MD60S18M2

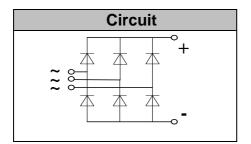
Features

- 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

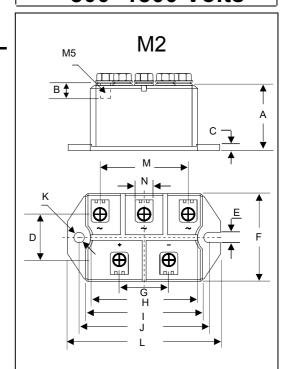
Applications

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- · Field supply for DC motors





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



		DIMEN	ISIONS			
DIM	INCHES		MM		NOTE	
	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	0.831	0.870	21.10	22.10		
Е	0.197	0.236	5.00	6.00		
F	1.634	1.673	41.50	42.50		
G	0.886	0.925	22.50	23.50	8.50	
Н	1.870	1.909	47.50	48.50		
	2.106	2.146	53.50	54.50		
J	2.343	2.382	59.50	60.50		
K	0.217		5.50		Ф	
L	2.815	2.854	71.50	72.50		
М	1.555	1.594	39.50	40.50		
N	0.335	0.374	8.50	9.50		



Module Type

TYPE	VRRM	Vrsm
MD60S08M2	800V	900V
MD60S12M2	1200V	1300V
MD60S16M2	1600V	1700V
MD60S18M2	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units	
ID	Three phase, full wave Tc=110°C	60	Α	
IFSM	t=10mS Tvj =45°C	460	Α	
i ² t	t=10mS Tvj =45℃	1050	A^2s	
Visol	a.c.50HZ;r.m.s.;1min	3000	V	
Tvj		-40 to +150	$^{\circ}\!\mathbb{C}$	
Tstg		-40 to +125	$^{\circ}\!\mathbb{C}$	
Mt	To terminals(M5)	3±15%	Nm	
Ms	To heatsink(M5)	3±15%	Nm	
Weight	Module (Approximately)	130	g	

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	1.45	°C/W
Rth(c-s)	Module	0.07	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Тур.	Max.	Ullits
VFM	T=25℃ IF =150A		1.45	1.80	V
IRD	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM	_	_	0.3 5	mA mA



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Performance Curves

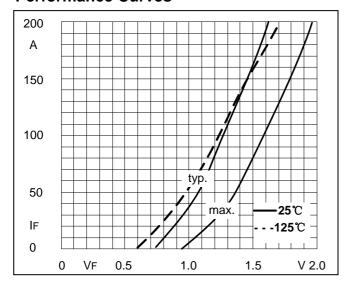


Fig1. Forward Characteristics

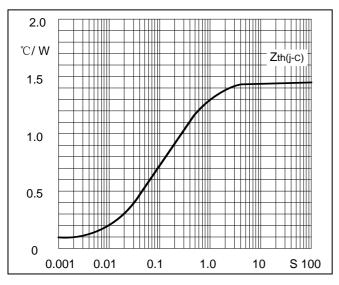


Fig3. Transient thermal impedance

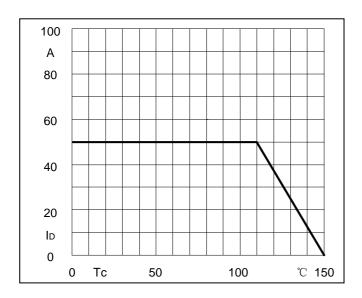


Fig5.Forward Current Derating Curve

120 W 60 Pvtot

Fig2. Power dissipation

25

A 50

0

0 ID

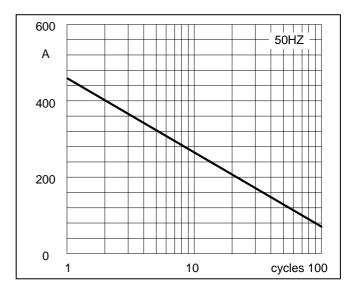


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

Device	Packing		
Part Number-BP	Bulk: 8PCS/BOX;80PCS/CTN		

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