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E502650

### **Features**

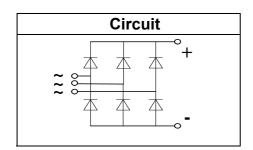
- Blocking Voltage:1600V
- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Glass Passivated Chip

## **Applications**

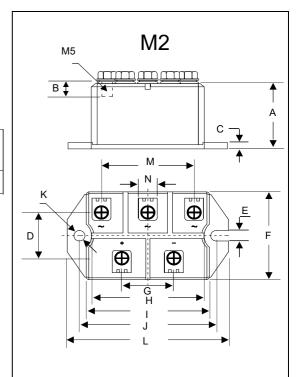
- Three Phase Rectifiers for Power Supplies
- · Rectifiers for DC Motor Field Supplies
- Input Rectifiers for Variable Frequency Drives

MCC Part Number	$V_{RRM}$	V <sub>RSM</sub>
MD60S16M2	1600V	1700V





# 60 Amp Glass Passivated Three Phase Rectifier Bridge 1600 Volts



		DIMEN	ISIONS		
DIM	INC	INCHES		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	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	
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	0.2	217	5	.50	Ф
L	2.815	2.854	71.50	72.50	
М	1.555	1.594	39.50	40.50	
N	0.374	0.413	9.50	10.50	



## **Maximum Ratings**

Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=110℃	60	Α
IFSM	t=10mS Tvj =45℃	460	Α
i <sup>2</sup> t	t=10mS Tvj =45℃	1050	$A^2s$
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	$^{\circ}$
Tstg		-40 to +125	$^{\circ}$
Mt	to terminals(M5)	5±15%	Nm
Ms	to heatsink(M5)	5±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
Symbol		Min.	Тур.	Max.	Ullits
VFM	Tvj=25℃ IF =150A		1.45	1.80	V
IRD	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM	l		0.3 5	mA mA



### **Performance Curves**

Fig1. Forward Characteristics

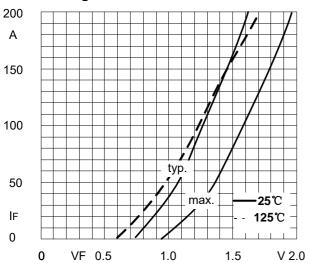
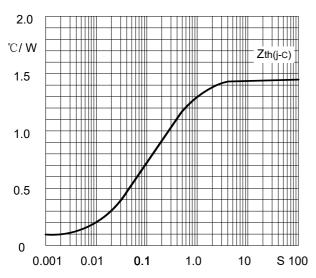


Fig3. Transient thermal impedance



**Fig5.Forward Current Derating Curve** 

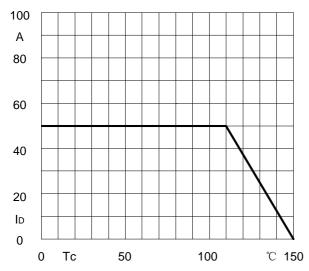


Fig2. Power dissipation

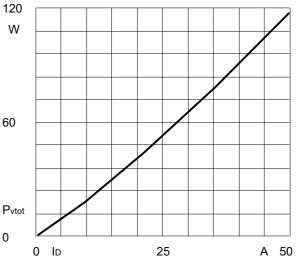
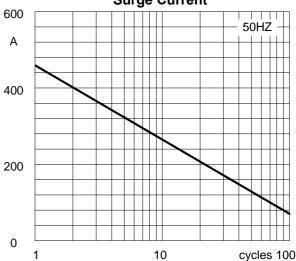


Fig4. Max Non-Repetitive Forward Surge Current





### **Ordering Information**

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

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