

## **Features**

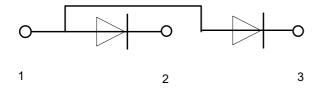
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Blocking voltage:1600V
- · Glass passivated chip

# **Applications**

- Non-Controllable Rectifiers for AC/AC Converters
- Line Rectifiers for Transistorized AC Motor Controllers
- Field Supply for DC Motors

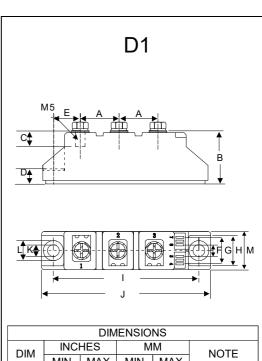
MCC Part Number	$V_{RRM}$	$V_{RSM}$
MD60A16D1	1600V	1700V





### Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

# 60 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 1600 Volts



DIMENSIONS							
DIM	INCI	HES	MM		MM		NOTE
Ulivi	MIN	MAX	MIN	MAX	NOTE		
Α	0.768	0.807	19.50	20.50			
В	1.161	1.201	29.50	30.50			
С	0.335	0.374	8.50	9.50			
D	0.315	0.354	8.00	9.00			
Е	0.571	0.610	14.50	15.50			
F	0.217	0.256	5.50	6.50			
G	0.531	0.571	13.50	14.50			
Н	0.650	0.689	16.50	17.50			
- 1	3.130	3.169	79.50	80.50			
J	3.642	3.681	92.50	93.50			
K	0.256		0.256 6.50		Ф		
L	0.413	0.453	10.50	11.50			
М	0.807	0.846	20.50	21.50			



**Maximum Ratings** 

Symbol	Conditions	Values	Units
<b>I</b> FAV	Single phase ,half wave 180° conduction Tc=100℃	60	Α
IFSM	t=10mS Tvj =45℃	1150	Α
i <sup>2</sup> t	t=10mS Tvj =45℃	6600	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	T terminals(M5)	3±15%	Nm
Ms	T heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	100	g

# **Thermal Characteristics**

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.59	°C/W
Rth(c-s)	Module	0.1	°C/W

# **Electrical Characteristics**

Cymbol	Conditions		Values	,	Unito
Symbol	Conditions	Min.	Тур.	Max.	Units
VFM	T=25℃ IF =200A	_	1.30	1.45	V
IRD	Tvj=150°C VRD=VRRM	_	_	5	mA



# **Performance Curves**

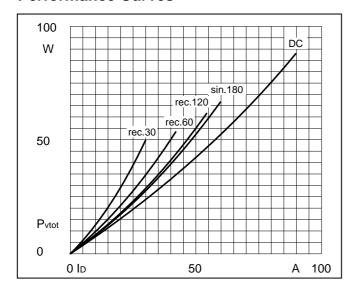


Fig1. Power dissipation

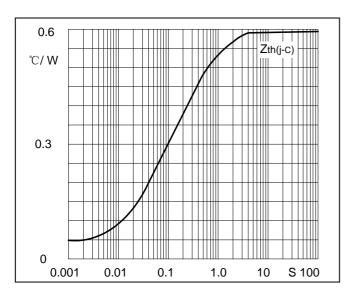


Fig3. Transient thermal impedance

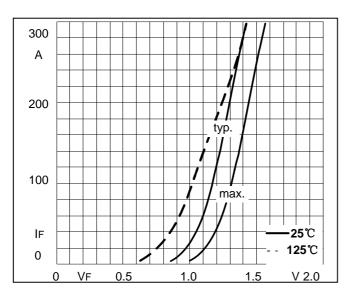


Fig5. Forward Characteristics

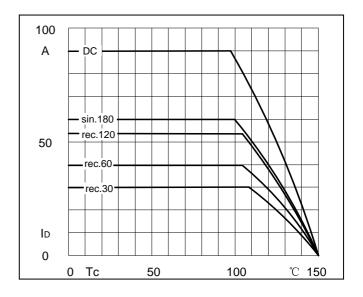


Fig2.Forward Current Derating Curve

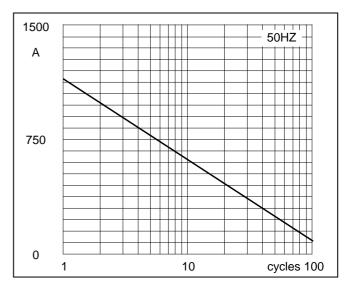


Fig4. Max Non-Repetitive Forward Surge



# **Ordering Information**

Device	Packing
Part Number-BP	Bulk: 10PCS/BOX ;100PCS/CTN

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