

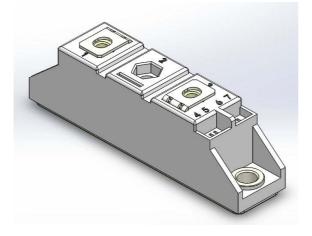
### Features

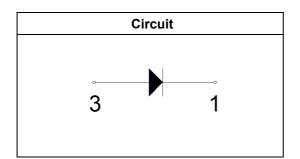
- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Blocking Voltage:1600 V
- Glass Passivated Chip

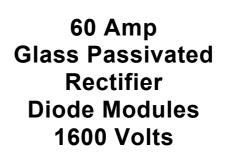
## Applications

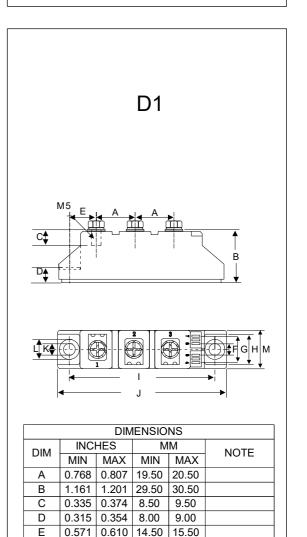
- Non-controllable Rectifiers for AC/AC Converters
- Line Rectifiers for Transistorized AC Motor Controllers
- Field Supply for DC Motors

MCC Part Number	V <sub>RRM</sub>	V <sub>RSM</sub>
MD60U16D1	1600V	1700V









F

G

Н

L

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L M 0.217 0.256 5.50

0.650 0.689 16.50 17.50

3.130 3.169 79.50 80.50

0.413 0.453 10.50 11.50

0.807 0.846 20.50 21.50

0.531 0.571

3.642 3.681

0.256

6.50

13.50 14.50

92.50 93.50

6.50

Φ



# **Maximum Ratings**

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180 $^\circ$ conduction Tc=100 $^\circ\!{ m C}$	60	A
IFSM	t=10mS Tvj =45℃	1150	A
i²t	t=10mS Tvj =45℃	6600	A <sup>2</sup> s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	°C
Tstg		-40 to +125	°C
Mt	To terminals(M5)	3±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	100	g

# **Thermal Characteristics**

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.4	°C/W
Rth(c-s)	Module	0.1	°C <b>/W</b>

## **Electrical Characteristics**

Symbol Conditions	Values			Units	
	Conditions	Min.	Тур.	Max.	Units
Vfm	T=25℃ IF =200A		1.30	1.45	V
Ird	Tvj=150 ℃ VRD=VRRM			5	mA





## **Performance Curves**

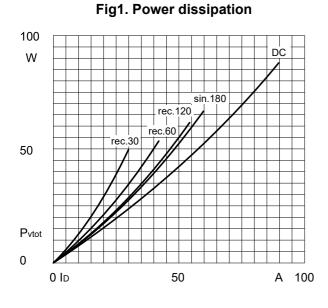
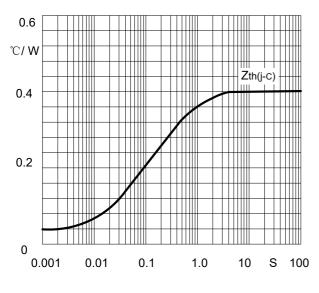


Fig3. Transient thermal impedance



**Fig5. Forward Characteristics** 

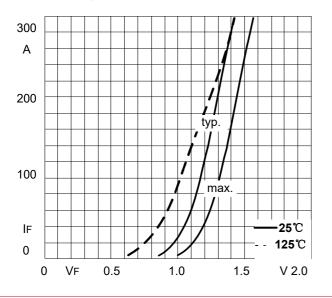


Fig2.Forward Current Derating Curve

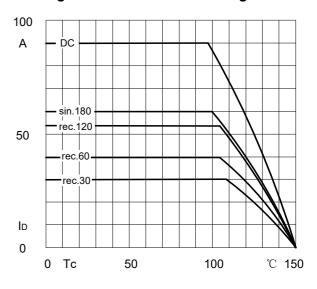
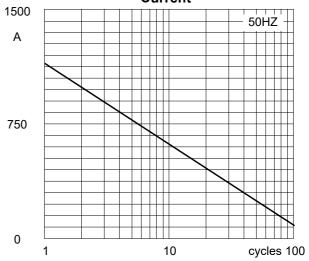


Fig4. Max Non-Repetitive Forward Surge Current





# **Ordering Information**

Device	Packing
Part Number-BP	Bulk: 10pcs/Box ;100pcs/Ctn

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