

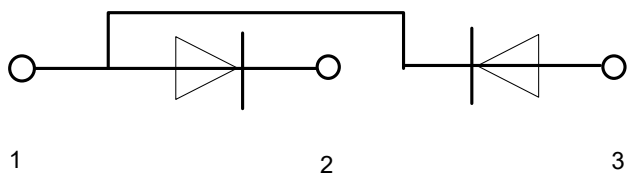
### Features

- 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:800 to 1800V
- 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>
MD36C08D1	800V	900V
MD36C12D1	1200V	1300V
MD36C16D1	1600V	1700V
MD36C18D1	1800V	1900V



## 36 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 800~1800 Volts

**D1**

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.768	0.807	19.50	20.50	
B	1.161	1.201	29.50	30.50	
C	0.335	0.374	8.50	9.50	
D	0.315	0.354	8.00	9.00	
E	0.594	0.630	15.10	16.00	
F	0.217	0.256	5.50	6.50	
G	0.531	0.571	13.50	14.50	
H	0.650	0.689	16.50	17.50	
I	3.130	3.169	79.50	80.50	
J	3.642	3.681	92.50	93.50	
K		0.256		6.50	Φ
L	0.413	0.453	10.50	11.50	
M	0.807	0.846	20.50	21.50	

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

### Maximum Ratings

Symbol	Conditions	Values	Units
$I_{FAV}$	Single phase ,half wave 180° conduction Tc=104°C	36	A
$I_{FSM}$	t=10mS Tvj =45°C	650	A
$i^2t$	t=10mS Tvj =45°C	2100	A <sup>2</sup> S
$V_{isol}$	a.c.50HZ;r.m.s.;1min	3000	V
$T_{vj}$		-40 to +150	°C
$T_{stg}$		-40 to +125	°C
$Mt$	T terminals(M5)	3±15%	Nm
$Ms$	T heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	100	g

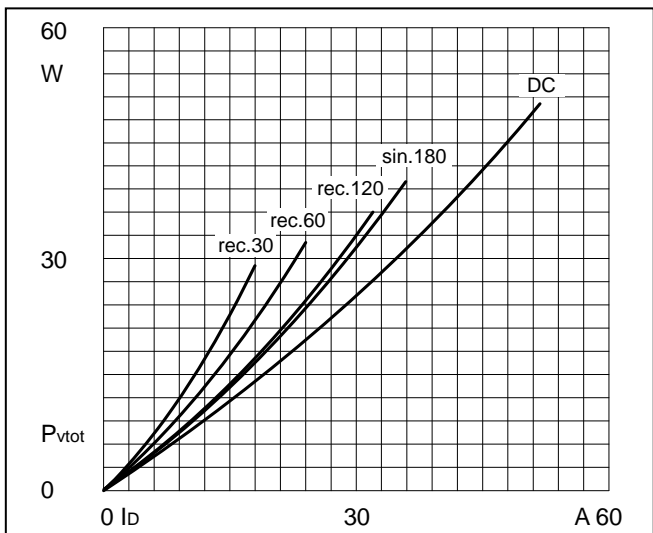
### Thermal Characteristics

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	Per diode	1.0	°C/W
$R_{th(c-s)}$	Module	0.1	°C/W

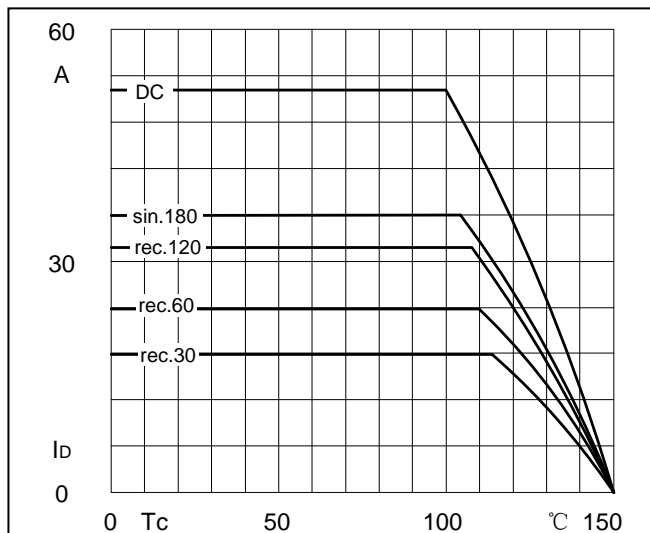
### Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
$V_{FM}$	T=25°C I <sub>F</sub> =100A	—	1.25	1.40	V
$I_{RD}$	Tvj=150°C V <sub>RD</sub> =V <sub>RRM</sub>	—	—	5	mA

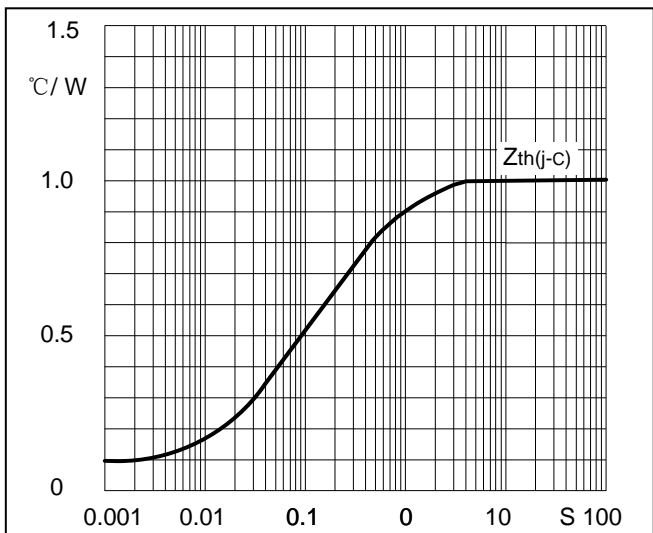
### Performance Curves



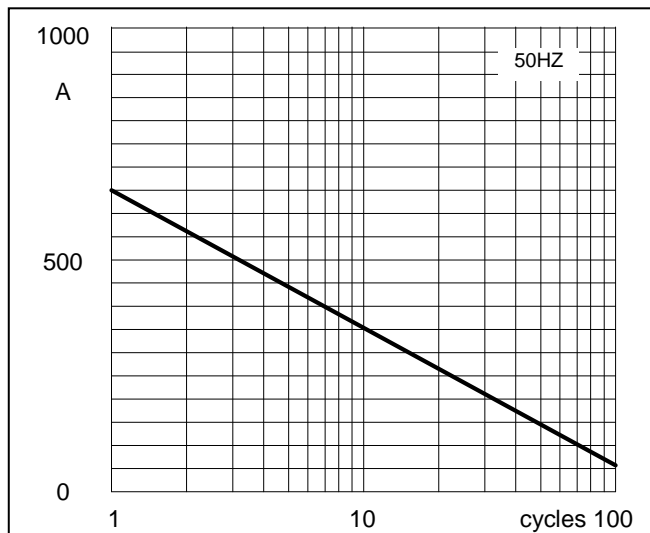
**Fig1. Power dissipation**



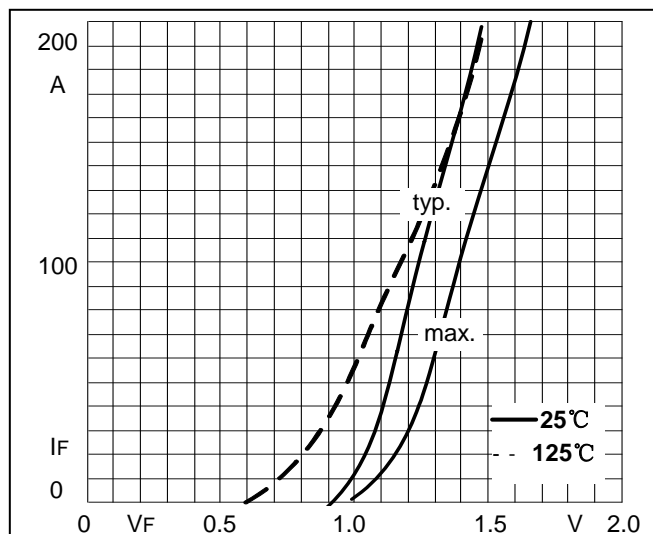
**Fig2. Forward Current Derating Curve**



**Fig3. Transient thermal impedance**



**Fig4. Max Non-Repetitive Forward Surge Current**



**Fig5. Forward Characteristics**

## Ordering Information

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

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