

Features

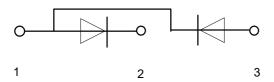
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Blocking voltage:1200 to 1600V
- · Glass passivated chip

Applications

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

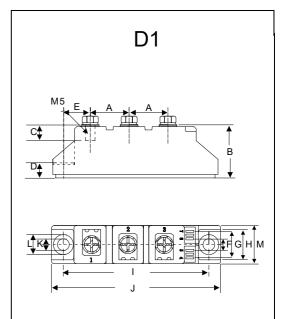
MCC Part Number	V _{RRM}	V_{RSM}
MD100C12D1	1200V	1300V
MD100C16D1	1600V	1700V





GLASS PASSIVATED RECTIFIER DIODE MODULES 1200~1600 Volts

100 Amp



DIMENSIONS					
DIM	INC	HES	MM		NOTE
	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 6		6.	50	Ф
L	0.413	0.453	10.50	11.50	
М	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=109°C	100	А
IFSM	t=10mS Tvj =45℃	2500	А
i ² t	t=10mS Tvj =45℃	31250	A ² s
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(M6)	5±15%	Nm
Weight	Module (Approximately)	100	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.35	°C/W
Rth(c-s)	Module	0.1	°C/W

Electrical Characteristics

Cumbal	Conditions	Values			Unito
Symbol	Conditions	Min.	Тур.	Max.	Units
VFM	T=25℃ IF =300A	_	1.20	1.40	V
IRD	Tvj=150°C VRD=VRRM	_	_	5	mA

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Performance Curves

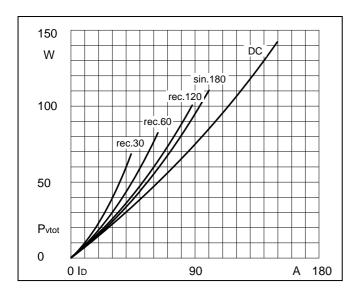


Fig1. Power dissipation

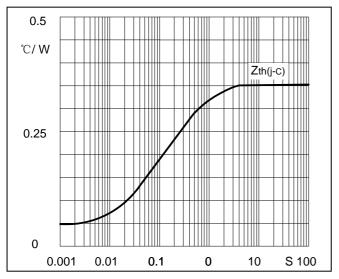


Fig3. Transient thermal impedance

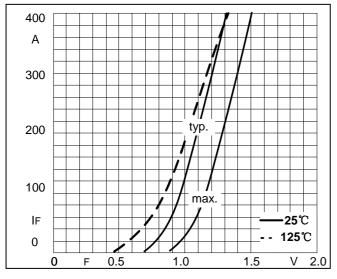


Fig5. Forward Characteristics

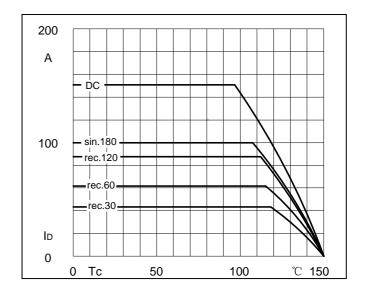


Fig2.Forward Current Derating Curve

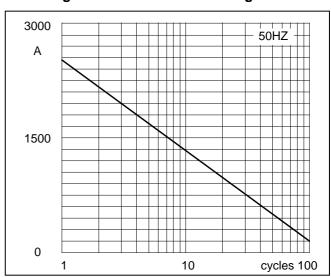


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information

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

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