

Features

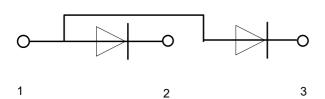
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Blocking voltage:800 to 1800V
- · Glass passivated chip

Applications

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

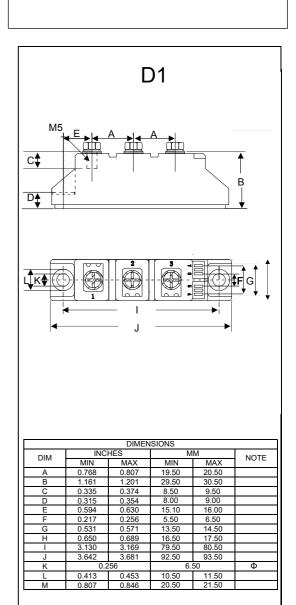
MCC Part Number	V_{RRM}	V _{RSM}
MD120A08D1	800V	900V
MD120A12D1	1200V	1300V
MD120A16D1	1600V	1700V
MD120A18D1	1800V	1900V





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

120 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 800~1800 Volts





Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180° conduction Tc=106℃	120	Α
IFSM	t=10mS Tvj =45℃	2800	А
i ² t	t=10mS Tvj =45℃	39200	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	0.26	°C/W
Rth(c-s)	Module	0.1	°C/W

Electrical Characteristics

Symbol	Symbol Conditions	Values		3	Units
Symbol		Min.	Тур.	Max.	Ullits
VFM	T=25℃ IF =300A	_	1.20	1.35	V
Ird	Tvj=150°C VRD=VRRM	_		6	mA

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Prenformance Curves

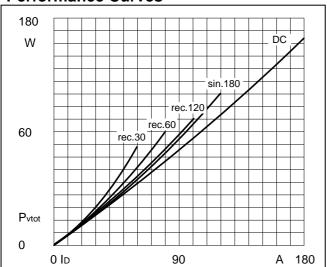


Fig1. Power dissipation

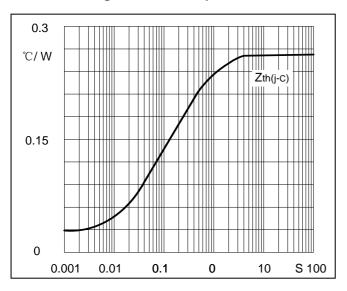


Fig3. Transient thermal impedance

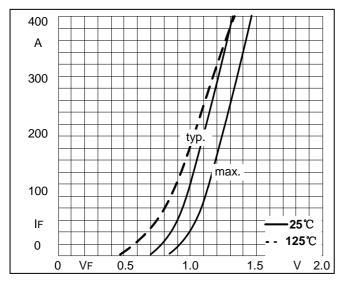


Fig5. Forward Characteristics

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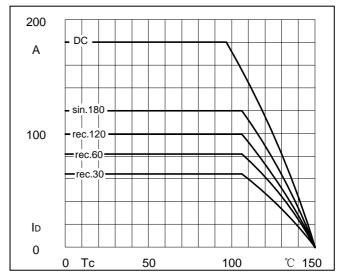


Fig2.Forward Current Derating Curve

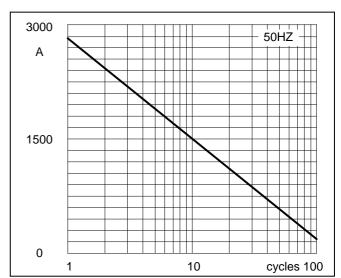


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information

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

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