

Features

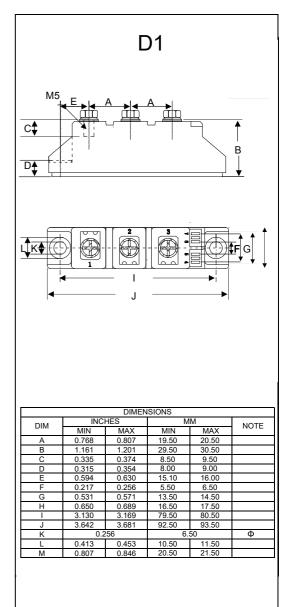
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Blocking voltage:800 to 1800V
- Glass passivated chip

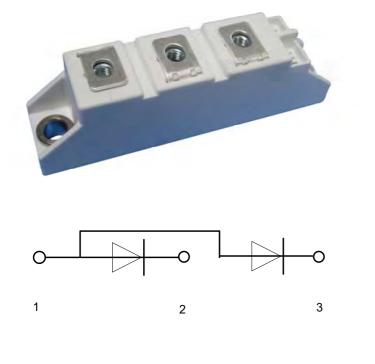
Applications

- 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.



Maximum Ratings

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

Electrical Characteristics

Symbol Conditions	Conditions	,	Values		Unito
	Conditions	Min.	Тур.	Max.	Units
Vfm	T=25℃ IF =300A	_	1.20	1.35	V
Ird	Tvj=150℃ VRD=VRRM		—	6	mA



Performance Ourses

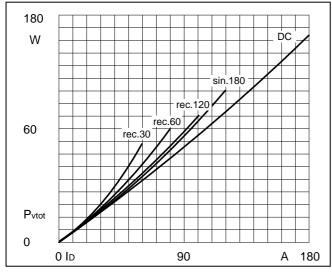


Fig1. Power dissipation

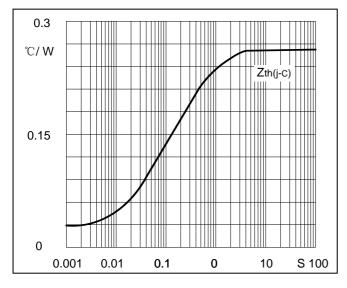


Fig3. Transient thermal impedance

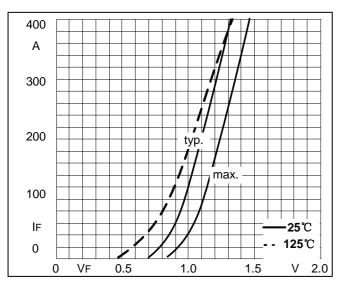


Fig5. Forward Characteristics

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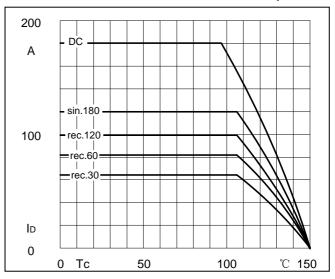


Fig2.Forward Current Derating Curve

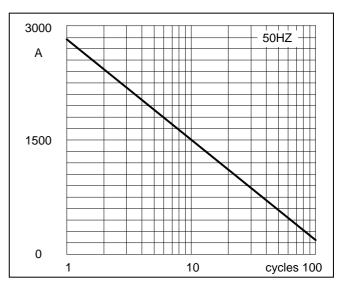


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information

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

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