

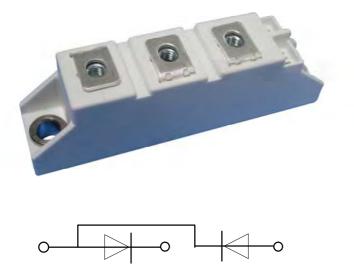
Features

- 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:1600V
- Glass passivated chip

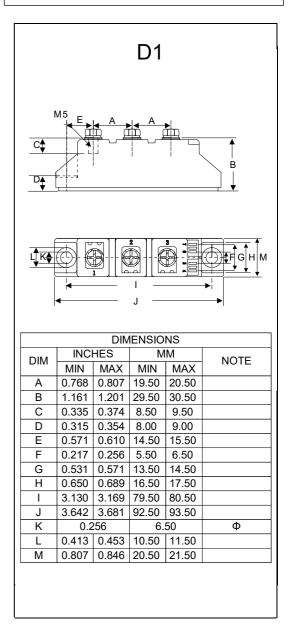
Applications

- 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}
MD120C16D1	1600V	1700V



120 Amp		
GLASS PASSIVATED		
RECTIFIER DIODE		
MODULES		
1600 Volts		



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

2

1

3



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	А
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	$^{\circ}\mathrm{C}$
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	Values			Units
		Min.	Тур.	Max.	Units
Vfm	T=25℃ IF =300A		1.20	1.35	V
Ird	Tvj=150℃ VRD=VRRM			6	mA



Performance Curves

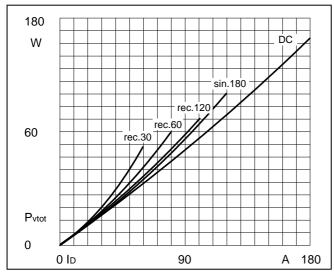


Fig1. Power dissipation

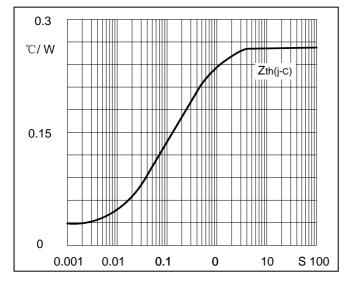


Fig3. Transient thermal impedance

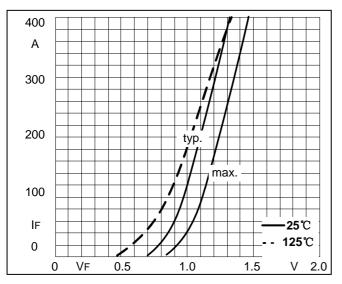


Fig5. Forward Characteristics

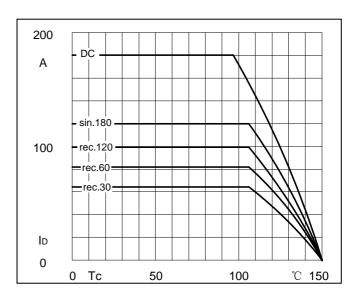


Fig2.Forward Current Derating Curve

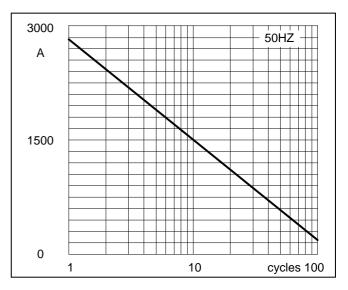


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information

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

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