

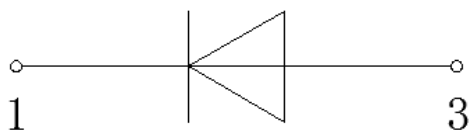
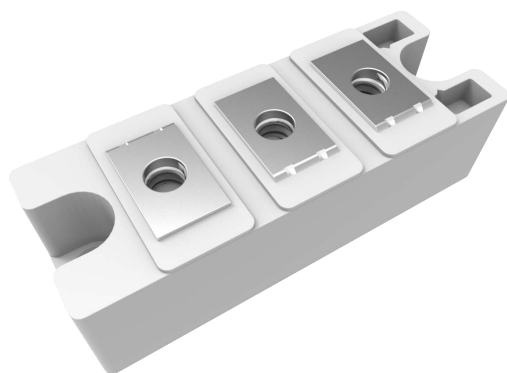
Features

- 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

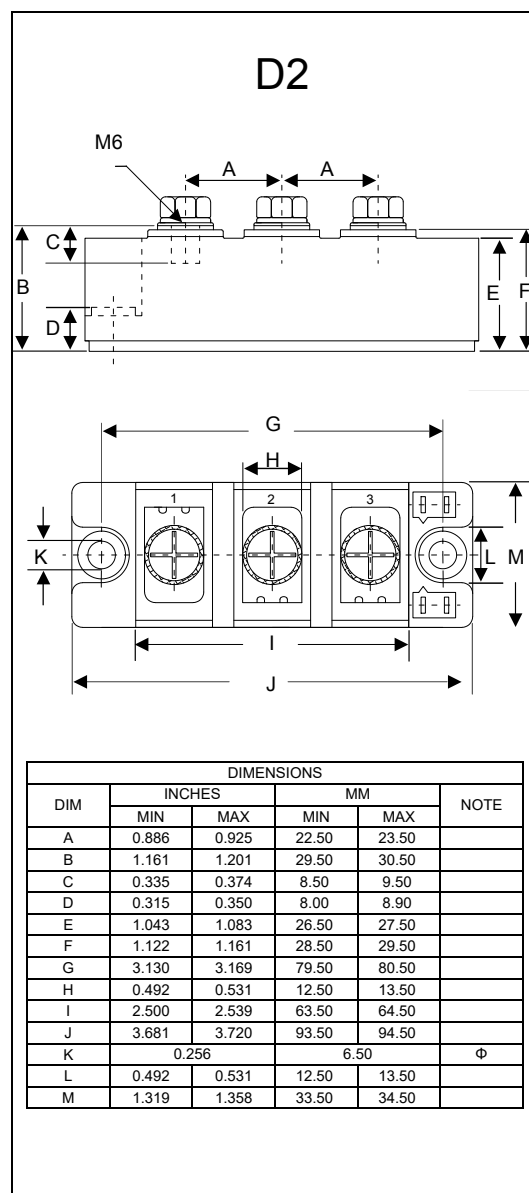
- Non-Controllable Rectifiers for AC/AC Converters
- Line Rectifiers for Transistorized AC Motor Controllers
- Field Supply for DC Motors

MCC Part Number	V_{RRM}	V_{RSM}
MD200U08D2	800V	900V
MD200U12D2	1200V	1300V
MD200U16D2	1600V	1700V
MD200U18D2	1800V	1900V



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

200 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 800 to 1800 Volts



Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180° conduction Tc=101℃	200	A
IFSM	t=10mS Tvj =45℃	6800	A
i ² t	t=10mS Tvj =45℃	231200	A ² s
V _{isol}	a.c.50HZ;r.m.s.;1min	3000	V
T _{vj}		-40 to +150	℃
T _{stg}		-40 to +125	℃
Mt	T terminals(M6)	5±15%	Nm
Ms	T heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	160	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per diode	0.18	℃/W
R _{th(c-s)}	Module	0.05	℃/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V _{FM}	T=25℃ IF =300A	—	1.18	1.30	V
I _{RD}	Tvj=150℃ VRD=VRRM	—	—	9	mA
r _f	T _j =25℃		1.13		mΩ
V _{f0}			0.84		V

Performance Curves

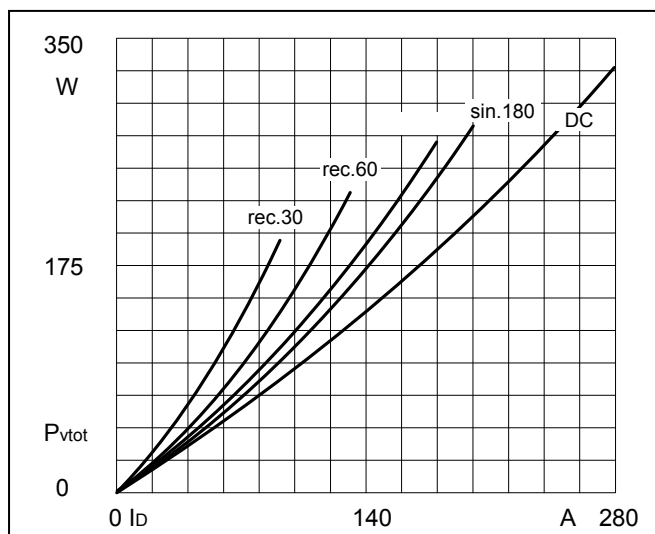


Fig1. Power dissipation

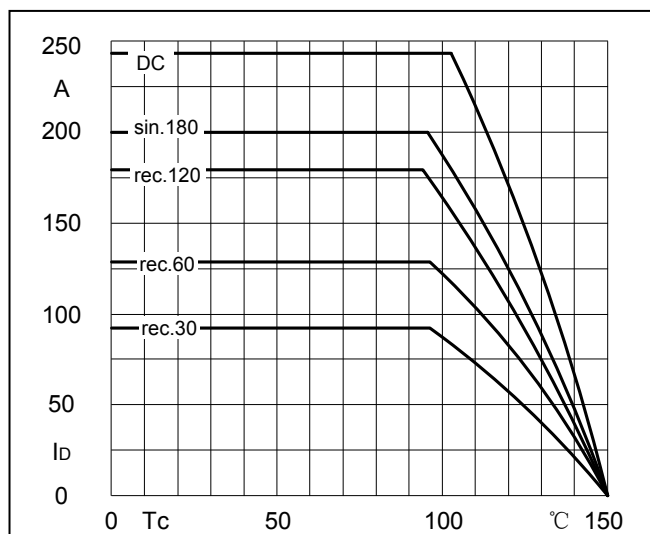


Fig2. Forward Current Derating Curve

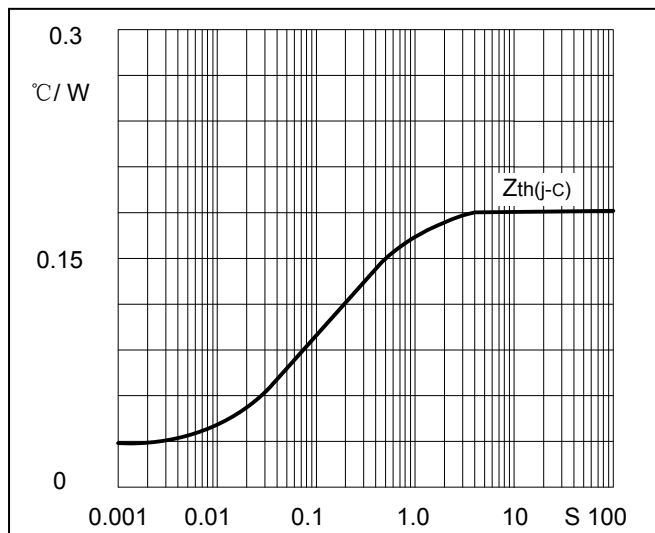


Fig3. Transient thermal impedance

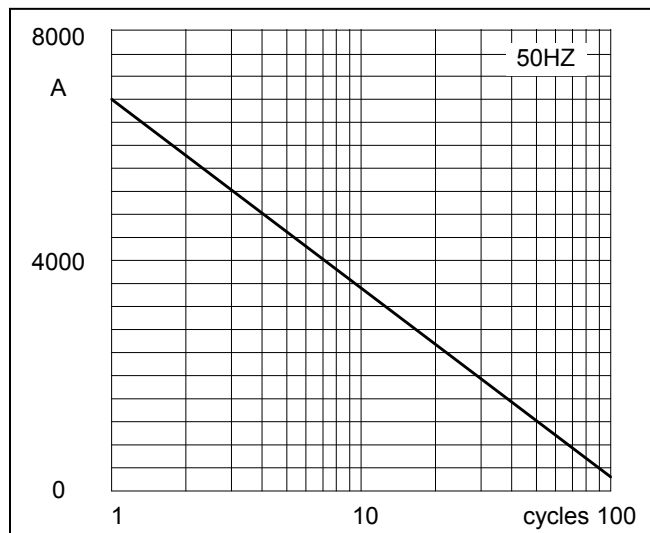


Fig4. Max Non-Repetitive Forward Surge Current

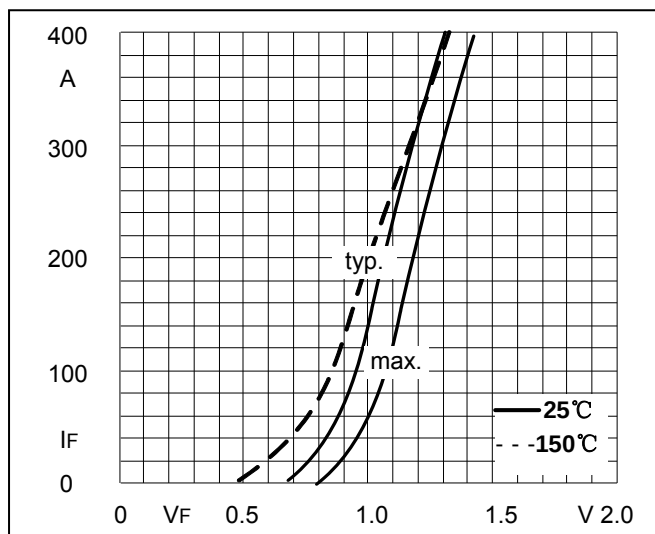


Fig5. Forward Characteristics

Ordering Information

Device	Packing
Part Number-BP	Bulk: 8PCS/BOX ;80PCS/CTN

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