

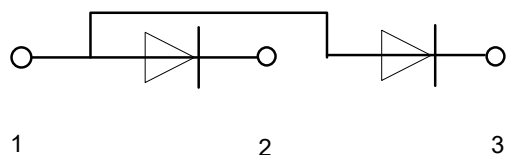
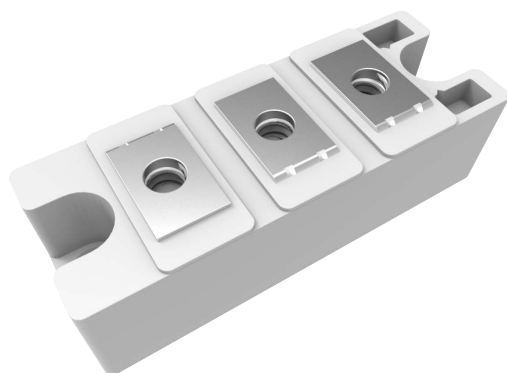
## Features

- 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

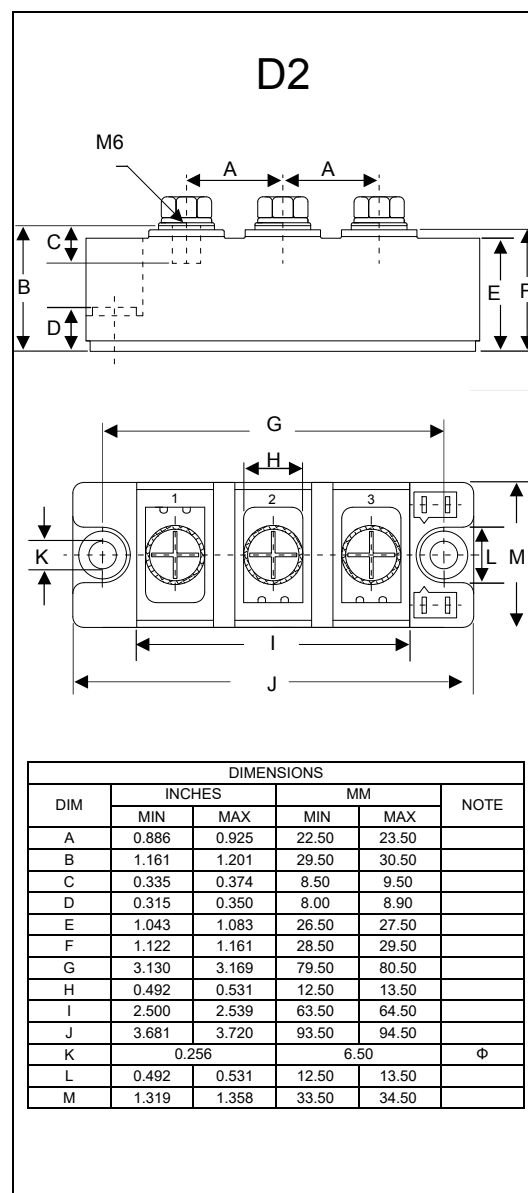
## Applications

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

MCC Part Number	$V_{RRM}$	$V_{RSM}$
MD200A16D2	1600V	1700V



# 200 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 1600 Volts



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

## Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180° conduction Tc=95℃	200	A
IFSM	t=10mS Tvj =45℃	6800	A
i <sup>2</sup> t	t=10mS Tvj =45℃	231200	A <sup>2</sup> s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to 150	℃
Tstg		-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
Rth(j-c)	Per diode	0.18	℃/W
Rth(c-s)	Module	0.05	℃/W

## Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
VFM	T=25℃ IF =300A	—	1.18	1.30	V
IRD	Tvj=150℃ VRD=VRRM	—	—	9	mA
r <sub>f</sub>	T <sub>J</sub> =25℃		1.13		mΩ
V <sub>fO</sub>			0.84		V

## Performance Curves

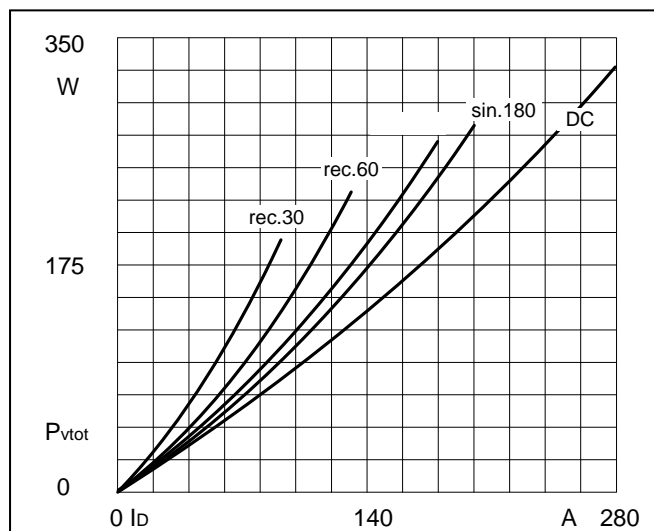


Fig1. Power dissipation

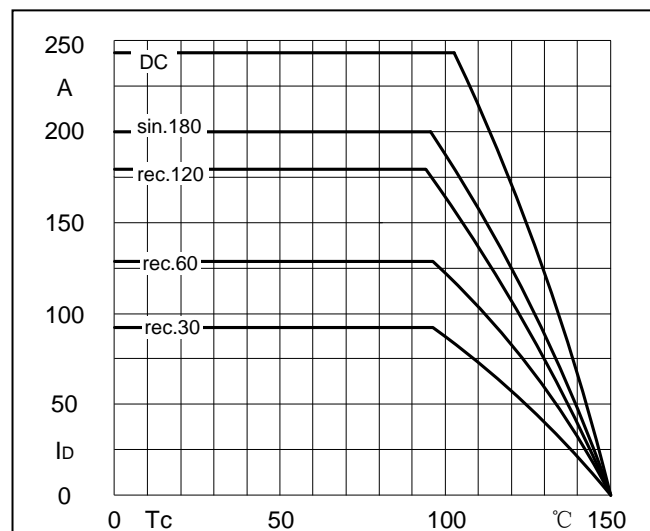


Fig2. Forward Current Derating Curve

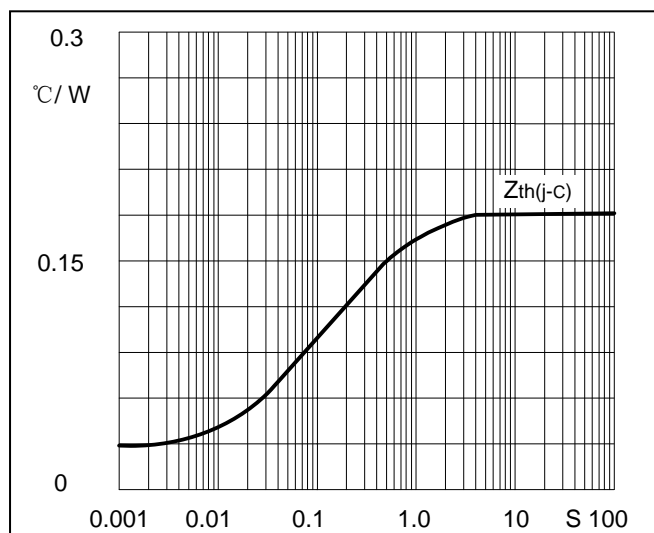


Fig3. Transient thermal impedance

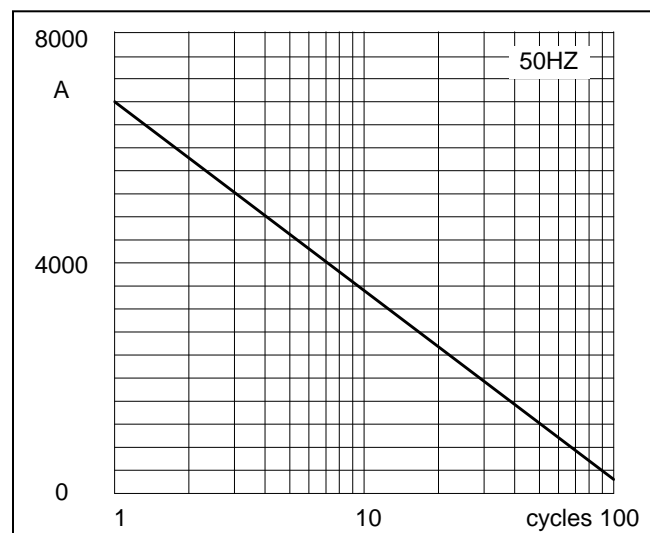


Fig4. Max Non-Repetitive Forward Surge Current

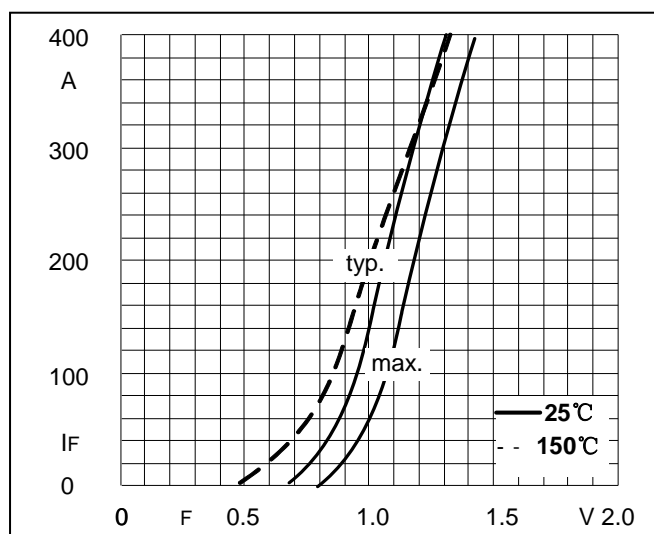


Fig5. Forward Characteristics

## Ordering Information

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

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