

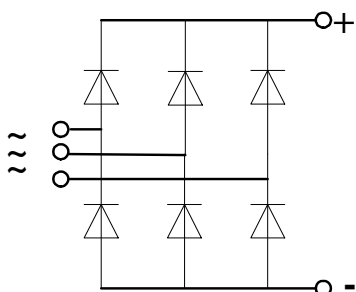
Features

- 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:1600 V
- Glass passivated chip

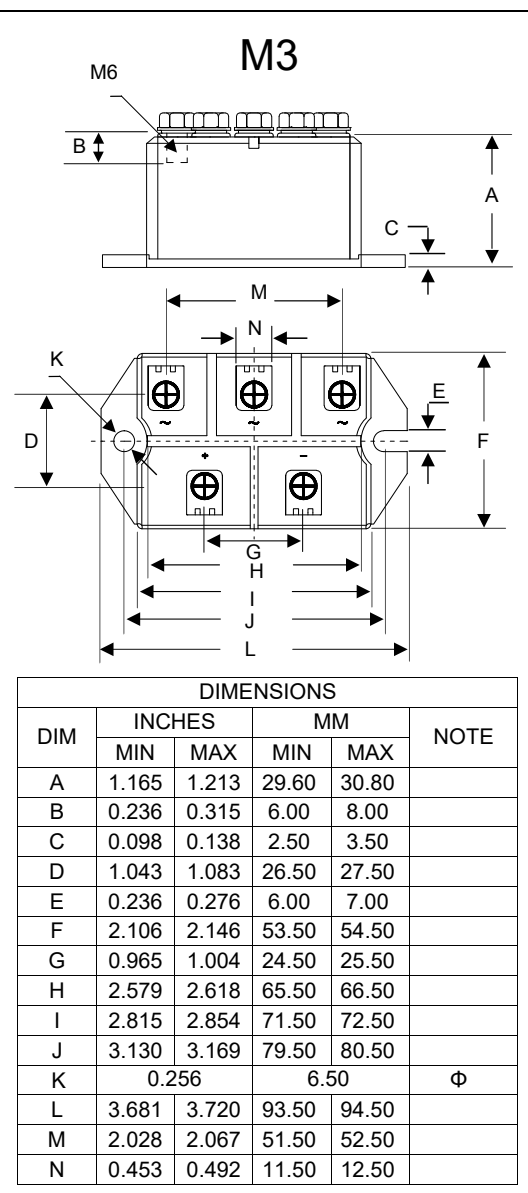
Applications

- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers

MCC Part Number	V_{RRM}	V_{RSM}
MD160S16M3	1600V	1700V



160 Amp GLASS PASSIVATED THREE PHASE RECTIFIER BRIDGE 1600 Volts



Maximum Ratings

Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=100°C	160	A
IFSM	t=10mS Tvj =45°C	1800	A
i ² t	t=10mS Tvj =45°C	16200	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(M6)	5±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	230	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.65	°C/W
Rth(c-s)	Module(Approximately)	0.03	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V _{FM}	T=25°C I _F =300A	—	1.50	1.75	V
I _{RD}	Tvj=25°C VRD=VRRM Tvj=150°C VRD=VRRM	—	—	0.5 6	mA mA

Performance Curves

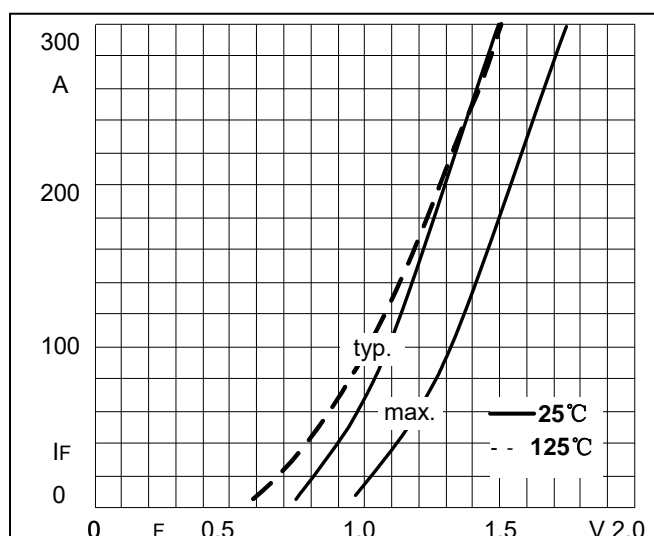


Fig1. Forward Characteristics

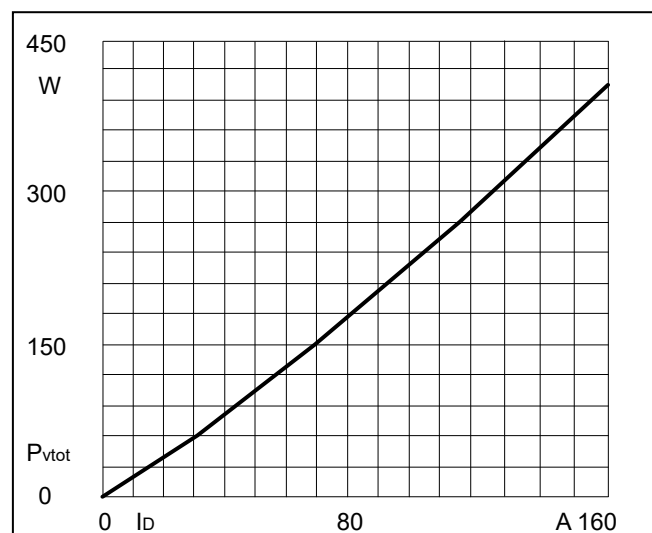


Fig2. Power dissipation

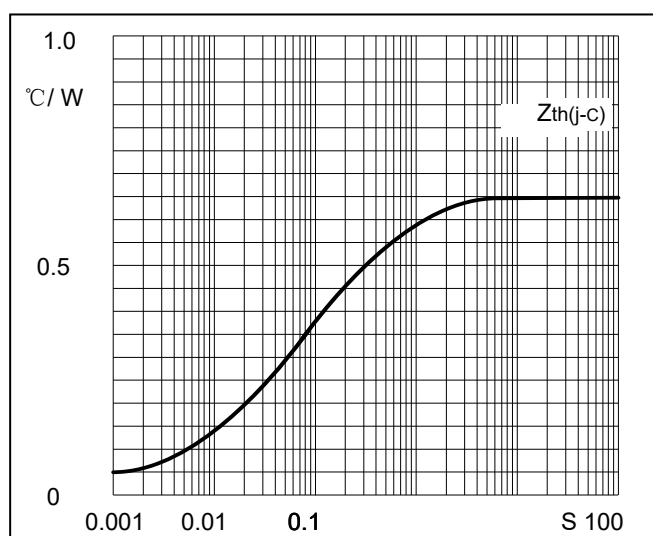


Fig3. Transient thermal impedance

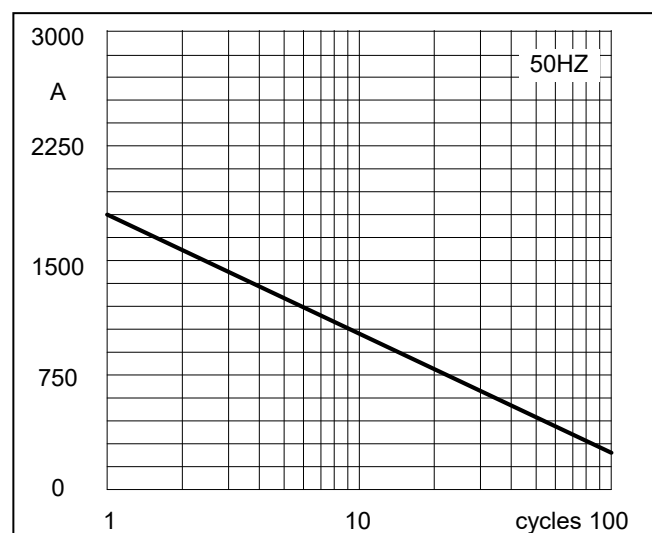


Fig4. Max Non-Repetitive Forward Surge Current

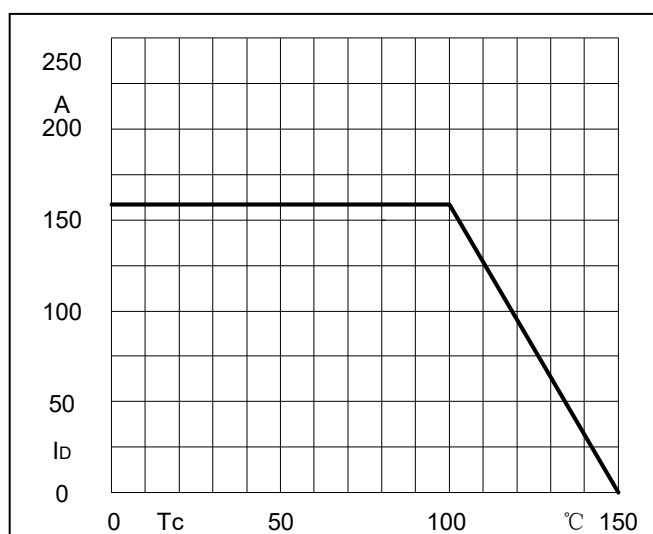


Fig5. Forward Current Derating Curve

Ordering Information

Device	Packing
Part Number-BP	Bulk: 6PCS/BOX ;60PCS/CTN

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