



E502650

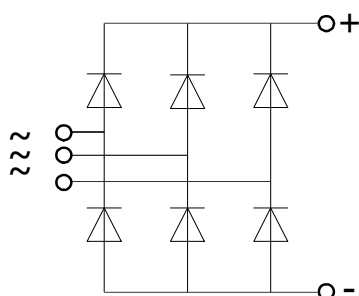
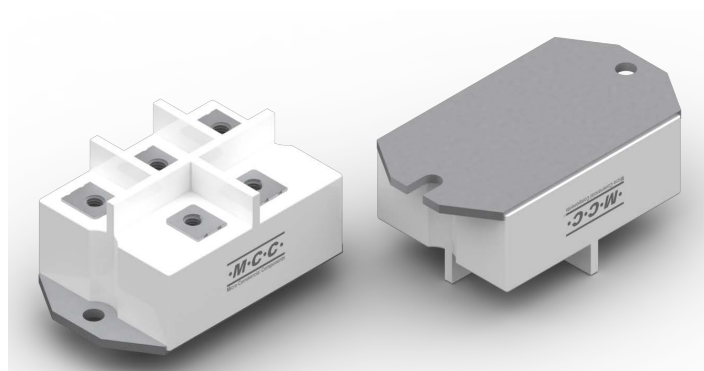
Features

- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Blocking Voltage: 1600 V
- Glass Passivated Chip
- Three Phase Bridge Rectifier

Applications

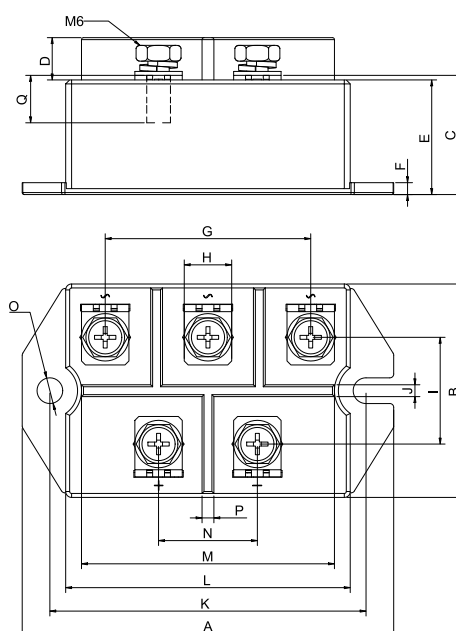
- Three Phase Rectifiers for Power Supplies
- Rectifiers for DC Motor Field Supplies
- Battery Charger Rectifiers
- Input Rectifiers for Variable Frequency Drives

MCC Part Number	V_{RRM}	V_{RSM}
MD200S16NM3	1600V	1700V



200 Amp Glass Passivated Three Phase Rectifier Bridge 1600 Volts

NM3



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	3.681	3.720	93.50	94.50	
B	2.106	2.146	53.50	54.50	
C	1.161	1.201	29.50	30.50	
D	0.402	0.441	10.20	11.20	
E	1.122	1.161	28.50	29.50	
F	0.114	0.122	2.90	3.10	
G	2.028	2.067	51.50	52.50	
H	0.453	0.492	11.50	12.50	
I	1.043	1.083	26.50	27.50	
J	0.110	0.126	2.80	3.20	
K	3.130	3.169	79.50	80.50	
L	2.815	2.854	71.50	72.50	
M	2.500	2.539	63.50	64.50	
N	0.965	1.004	24.50	25.50	
O	0.244	0.268	6.20	6.80	Φ
P	0.098	0.138	2.50	3.50	
Q	0.453	0.492	11.50	12.50	

Maximum Ratings

Symbol	Conditions	Values	Units
I_D	Three Phase, Full Wave $T_c=100^{\circ}\text{C}$	200	A
I_{FSM}	$t=10\text{mS}$ $T_{vj}=45^{\circ}\text{C}$	2240	A
i^2t	$t=10\text{mS}$ $T_{vj}=45^{\circ}\text{C}$	25000	A^2s
V_{isol}	a.c.50HZ;r.m.s.;1min	3000	V
T_{vj}		-40 to +150	$^{\circ}\text{C}$
T_{stg}		-40 to +125	$^{\circ}\text{C}$
Mt	to Terminals(M6)	$5\pm 15\%$	Nm
Ms	to Heat Sink(M6)	$5\pm 15\%$	Nm
Weight	Module (Approximately)	230	g

Thermal Characteristics

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	Per Diode	0.45	$^{\circ}\text{C/W}$
$R_{th(c-s)}$	Module (Approximately)	0.025	$^{\circ}\text{C/W}$

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V_{FM}	$T_{vj}=25^{\circ}\text{C}$; $I_F=300\text{A}$	—	1.45	1.70	V
I_{RD}	$T_{vj}=25^{\circ}\text{C}$; $V_{RD}=V_{RRM}$ $T_{vj}=150^{\circ}\text{C}$; $V_{RD}=V_{RRM}$	—	—	0.5 6	mA mA

Performance Curves

Fig1. Forward Characteristics

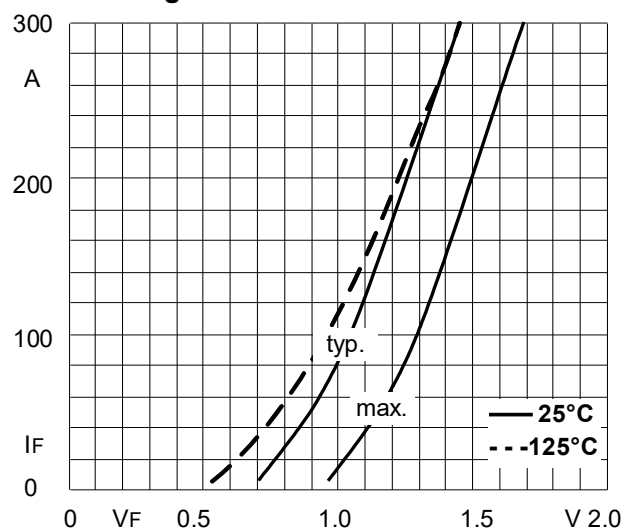


Fig2. Power Dissipation

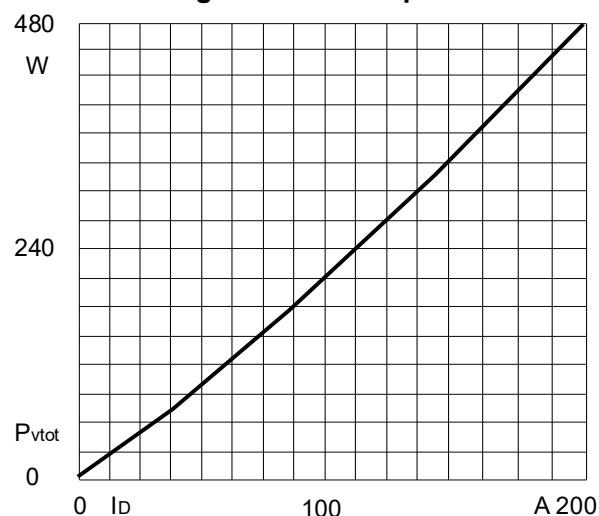


Fig3. Transient Thermal Impedance

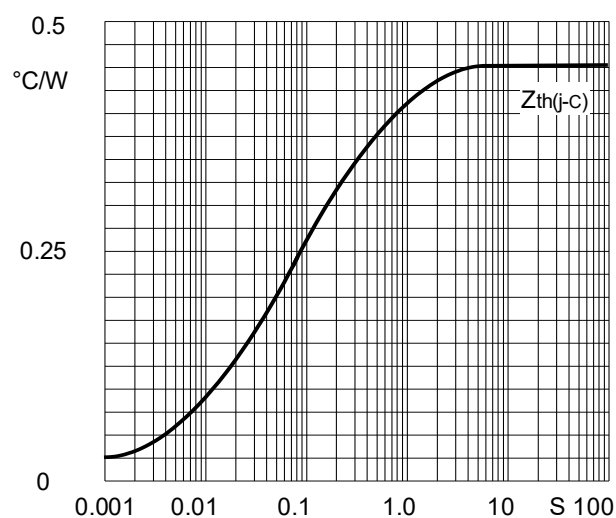


Fig4. Max Non-Repetitive Forward Surge Current

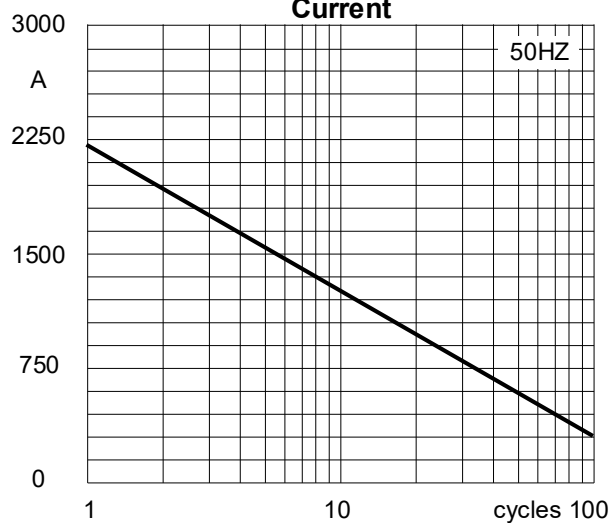
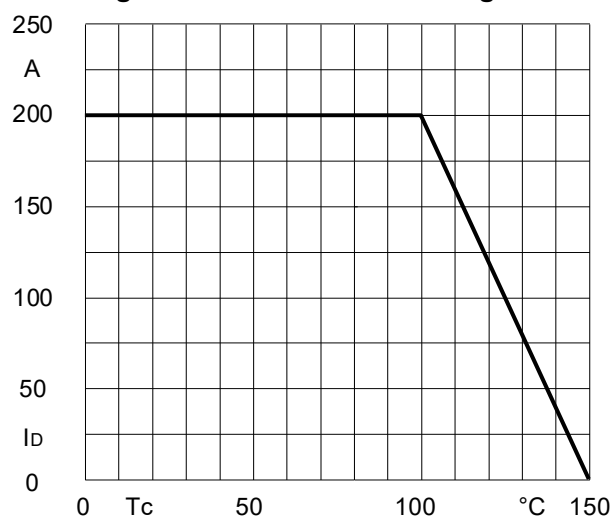


Fig5. Forward Current Derating Curve



Ordering Information

Device	Packing
Part Number-BP	Bulk: 6pcs/Box ;60pcs/Ctn

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