

FL E502650

Features

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

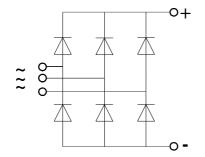
200 Amp Glass Passivated Three Phase Rectifier Bridge 1600 Volts

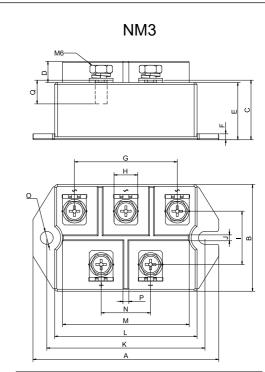
Applications

- 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







DIMENSIONS						
DIM	INC	HES	MM		NOTE	
DIIVI	MIN	MAX	MIN MAX		NOIL	
Α	3.681	3.720	93.50	94.50		
В	2.106	2.146	53.50	54.50		
С	1.161	1.201	29.50	30.50		
D	0.402	0.441	10.20	11.20		
Е	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		
Н	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		
0	0.244	0.268	6.20	6.80	Ф	
Р	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°C	200	Α
I _{FSM}	t=10mS T _{vj} =45°C	2240	Α
i²t	t=10mS T _{vj} =45°C	25000	A^2s
V _{isol}	a.c.50HZ;r.m.s.;1min	3000	V
T_{vj}		-40 to +150	°C
T _{stg}		-40 to +125	°C
Mt	to Terminals(M6)	5±15%	Nm
Ms	to Heat Sink(M6)	5±15%	Nm
Weight	Module (Approximately)	230	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per Diode	0.45	°C/W
Rth(c-s)	Module (Approximately)	0.025	°C/W

Electrical Characteristics

Symbol Conditions	Values			Units	
	Conditions	Min.	Тур.	Max.	Ullits
$V_{\sf FM}$	T_{vj} =25°C; I_F =300A	_	1.45	1.70	V
I _{RD}	T_{vj} =25°C; V_{RD} = V_{RRM} T_{vj} =150°C; V_{RD} = V_{RRM}	_	_	0.5 6	mA mA



Performance Curves

Fig1. Forward Characteristics

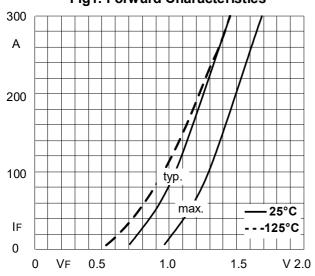


Fig3. Transient Thermal Impedance

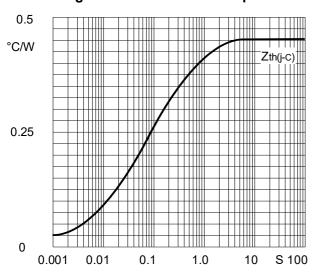


Fig5.Forward Current Derating Curve

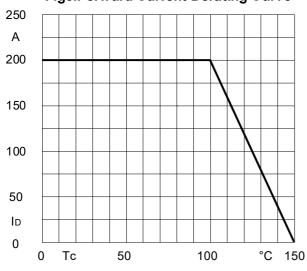


Fig2. Power Dissipation

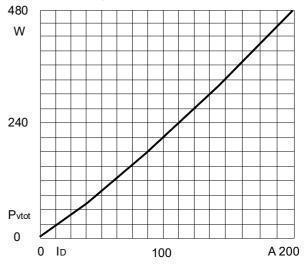
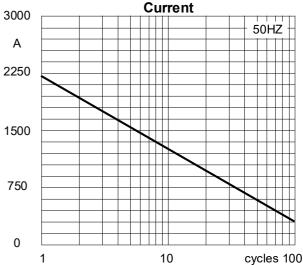


Fig4. Max Non-Repetitive Forward Surge





Ordering Information

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

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