

Micro Commercial Components



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 USA Tel:818-701-4933

Features

- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Blocking Voltage:800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip

Applications

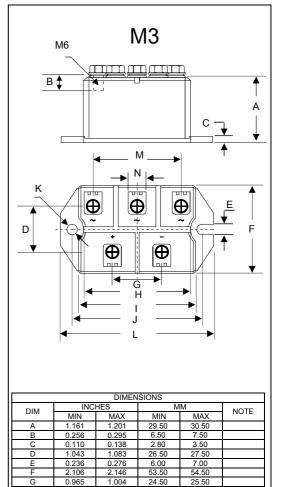
- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Input rectifiers for variable frequency drives



Circuit				
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MD200S08M3 MD200S12M3 MD200S16M3 MD200S18M3 MD200S20M3

200 Amp GLASS PASSIVATED THREE PHASE RECTIFIER BRIDGE 800~2000 Volts



65.50 71.50

79.50

93.5

11.50

2.618

2.854

3.169

2.06

0 4 9 2

2 579

2.81

3 13

3.68

0 4 5 3

66.50 72.50

80.50

12.50

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Module Type

ТҮРЕ	VRRM	Vrsm
MD200S08M3	800V	900V
MD200S12M3	1200V	1300V
MD200S16M3	1600V	1700V
MD200S18M3	1800V	1900V
MD200S20M3	2000V	2100V

Maximum Ratings

Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=100℃	200	А
IFSM	t=10mS Tvj =45℃	2240	А
i ² t	t=10mS Tvj =45℃	25000	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	0.45	°C/W
Rth(c-s)	Module(Approximately)	0.025	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
Symbol		Min.	Тур.	Max.	Units
VFM	T=25℃ IF =300A	_	1.45	1.70	V
Ird	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM	_	_	0.5 6	mA mA

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Performance Curves

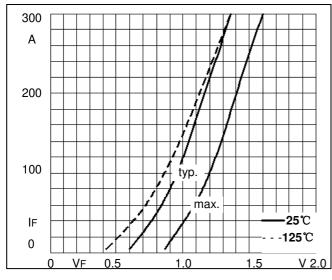


Fig1. Forward Characteristics

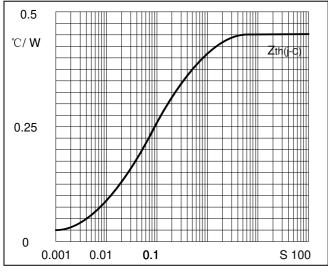


Fig3. Transient thermal impedance

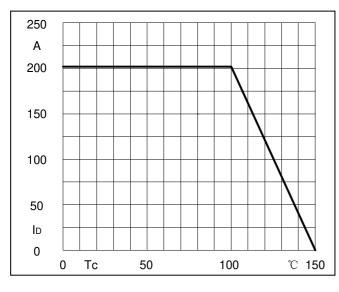


Fig5.Forward Current Derating Curve

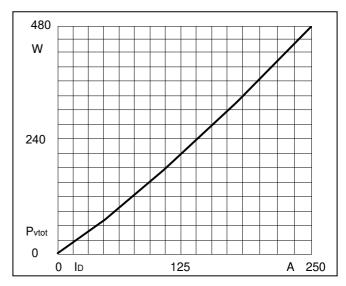


Fig2. Power dissipation

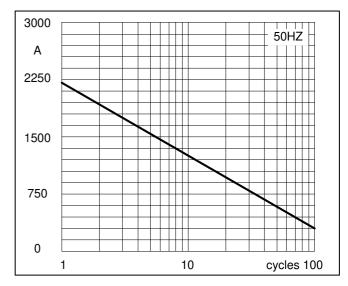


Fig4. Max Non-Repetitive Forward Surge Current

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Revision: B



Ordering Information :

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

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