

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

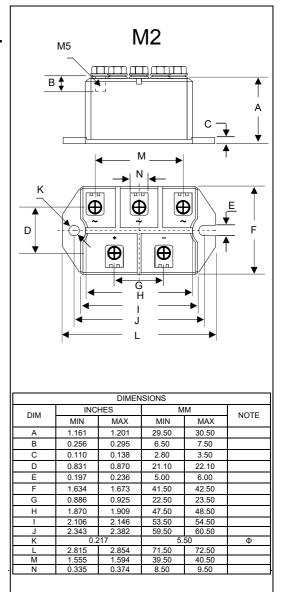
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors



	Circuit	
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MD60S08M2 MD60S12M2 MD60S16M2 MD60S18M2

60 Amp GLASS PASSIVATED THREE PHASE RECTIFIER BRIDGE 800~1800 Volts



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Module Type

ТҮРЕ	VRRM	Vrsm
MD60S08M2	800V	900V
MD60S12M2	1200V	1300V
MD60S16M2	1600V	1700V
MD60S18M2	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=110 $^\circ C$	60	А
IFSM	t=10mS Tvj =45℃	460	А
i ² t	t=10mS Tvj =45℃	1050	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(M5)	5±15%	Nm
Ms	To heatsink(M5)	5±15%	Nm
Weight	Module (Approximately)	130	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	1.45	°C/W
Rth(c-s)	Module	0.07	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
Symbol		Min.	Тур.	Max.	Units
VFM	T=25℃ IF =150A	—	1.45	1.80	V
Ird	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM	—	_	0.3 5	mA mA

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Performance Curves

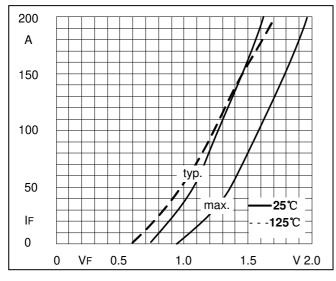


Fig1. Forward Characteristics

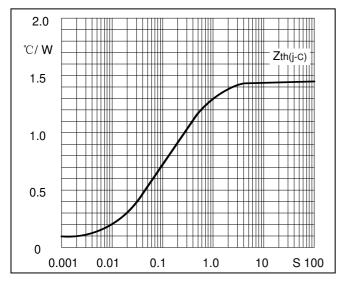


Fig3. Transient thermal impedance

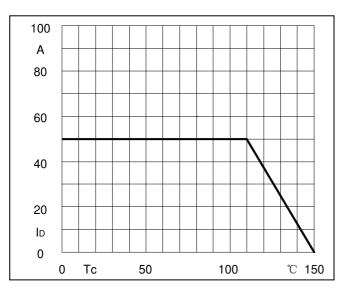


Fig5.Forward Current Derating Curve

120 W 60 Pvtot 0 lp 25 A 50

Fig2. Power dissipation

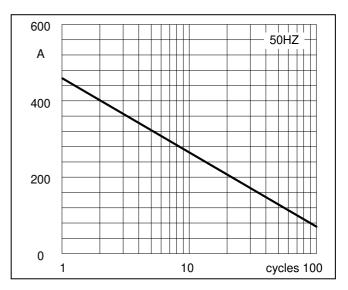


Fig4. Max Non-Repetitive Forward Surge Current

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Revision: A



Ordering Information :

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

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