



Micro Commercial Components 20736 Marilla Street Chatsworth

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Phone: (818) 701-4933 Fax: (818) 701-4939 MD130S08M5 MD130S12M5 MD130S16M5 MD130S18M5

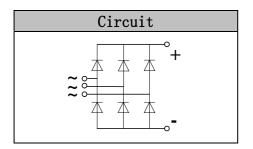
Features

- 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

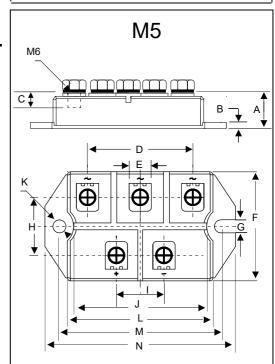
Applications

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





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



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.650	0.689	16.50	17.50	
В	0.098	0.138	2.50	3.50	
С	0.256	0.295	6.50	7.50	
D	2.028	2.067	51.50	52.50	
Е	0.453	0.492	11.50	12.50	
F	2.106	2.146	53.50	54.50	
G	0.236	0.276	6.00	7.00	
Н	1.043	1.083	26.50	27.50	
ı	0.965	1.004	24.50	25.50	
J	2.579	2.618	65.50	66.50	
K	0.256		6.50		Ф
L	2.815	2.854	71.50	72.50	
M	3.130	3.169	79.50	80.50	
N	3.681	3.720	93.50	94.50	



Module Type

TYPE	VRRM	Vrsm
MD130S08M5	800V	900V
MD130S12M5	1200V	1300V
MD130S16M5	1600V	1700V
MD130S18M5	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
ΙD	Three phase, full wave Tc=100°C	130	А
IFSM	t=10mS Tvj =45℃	1200	А
i ² t	t=10mS Tvj =45℃	7200	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	$^{\circ}\mathbb{C}$
Tstg		-40 to +125	$^{\circ}\mathbb{C}$
Mt	To terminals(M6)	5±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module	194	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.9	°C/W
Rth(c-s)	Module (Approximately)	0.03	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
Symbol		Min.	Тур.	Max.	Ullits
VFM	T=25℃ IF =300A	_	1.58	1.80	V
IRD	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM	-	_	0.3 5	mA mA



Performance Curves

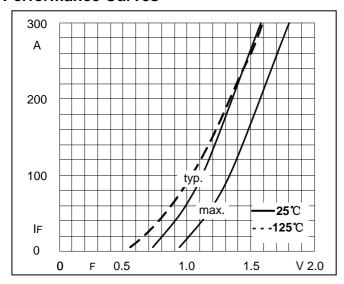


Fig1. Forward Characteristics

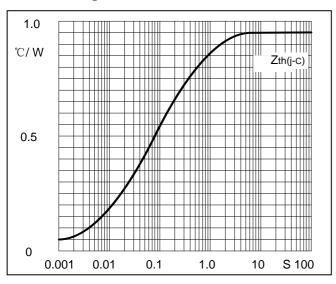


Fig3. Transient thermal impedance

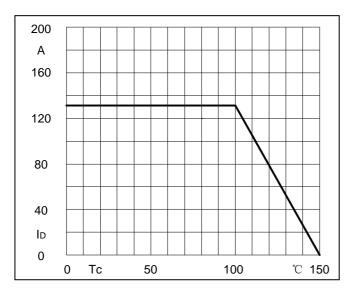


Fig5.Forward Current Derating Curve

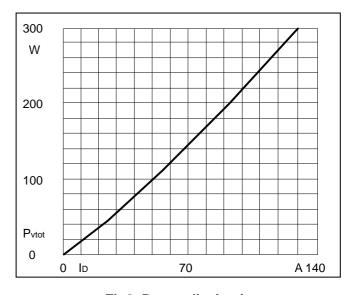


Fig2. Power dissipation

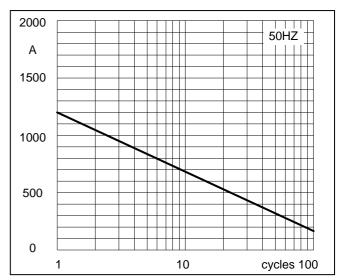


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

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

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