



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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

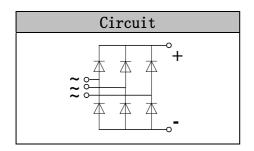
Features

- 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

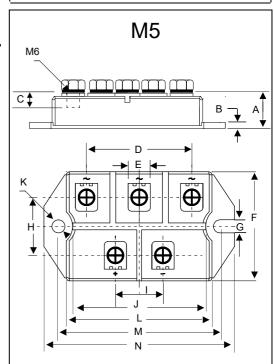
Applications

- 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

<u> </u>		
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	Α
IFSM	t=10mS Tvj =45℃	1200	Α
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°C IF =300A	_	1.58	1.80	V
IRD	Tvj=25°C VRD=VRRM Tvj=150°C VRD=VRRM	_	_	0.3 5	mA mA



Performance Curves

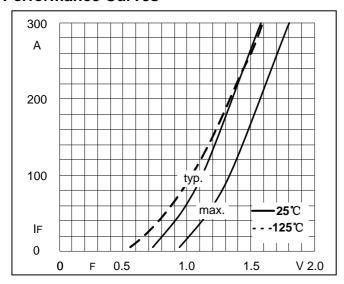


Fig1. Forward Characteristics

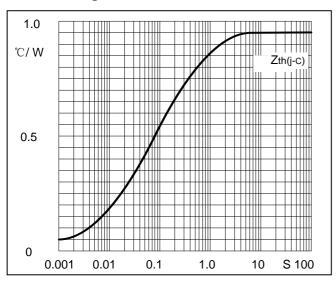


Fig3. Transient thermal impedance

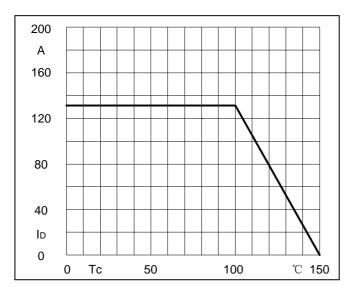


Fig5.Forward Current Derating Curve

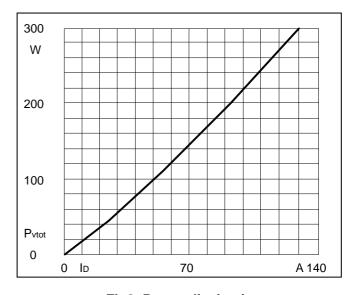


Fig2. Power dissipation

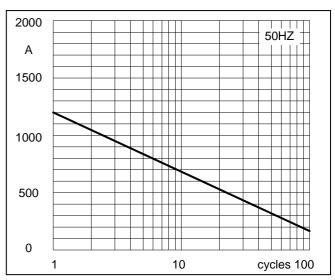


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

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

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