



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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

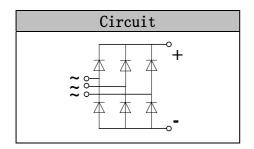
Features

- 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

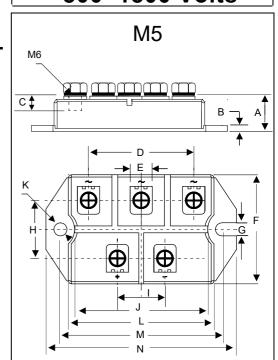
Applications

- 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



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.657	.681	16.70	17.30	
В	.106	.130	2.70	3.30	
С	.264	.287	6.70	7.30	
D	2.04	2.06	51.70	52.30	
Е	.461	.484	11.70	12.30	
F	2.11	2.14	53.70	54.30	
G	.244	.268	6.20	6.80	
Н	1.05	1.07	26.70	27.30	
_	.972	.996	24.70	25.30	
J	2.59	2.61	65.70	66.30	
K	.256		6.50		Ø
Ĺ	2.82	2.85	71.70	72.30	
M	3.14	3.16	79.70	80.30	
N	3.69	3.71	93.70	94.30	



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
Syllibol		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

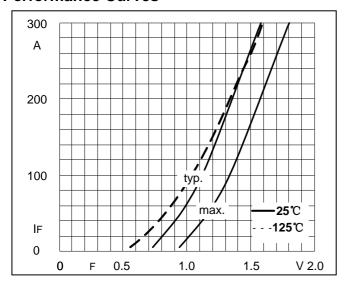


Fig1. Forward Characteristics

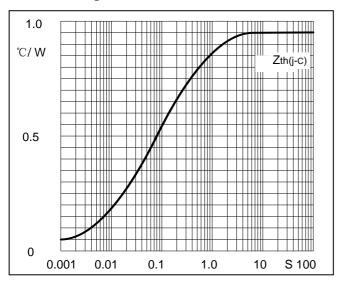


Fig3. Transient thermal impedance

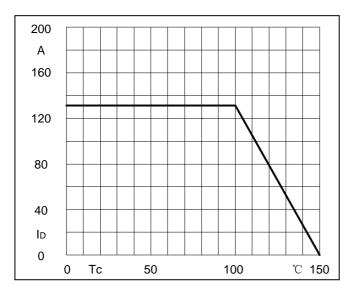


Fig5.Forward Current Derating Curve

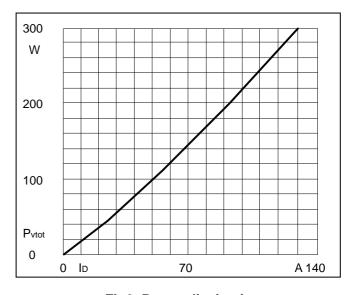


Fig2. Power dissipation

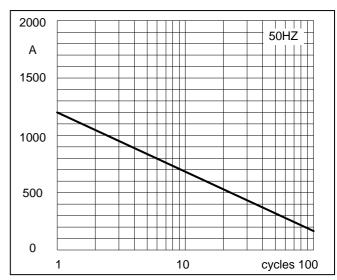


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

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

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