

Micro Commercial Components



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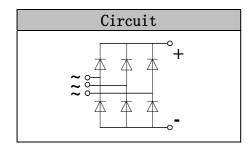
Features

- 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

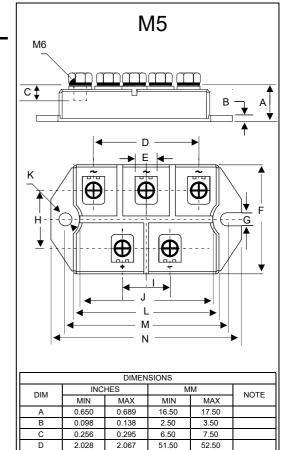
- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers





MD130S08M5 MD130S12M5 MD130S16M5 MD130S18M5

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



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0.453

2.106

0.236

1.043

0.965

2.815

3 130

0.492

2.146

0.276

1.083

1.004

2.85

3.16

11.50

53.50

6.00

26.50 24.50 65.50

71.5

79.5

12.50

54.50

7.00

27.50

25.50

Φ



Module Type

ТҮРЕ	Vrrm	Vrsm
MD130S08M5	800V	900V
MD130S12M5	1200V	1300V
MD130S16M5	1600V	1700V
MD130S18M5	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units	
lD	Three phase, full wave Tc=100 $^\circ\!\!\mathbb{C}$	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	°C	
Tstg		-40 to +125	°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	nbol Conditions	Values			Units
Symbol		Min.	Тур.	Max.	Units
Vfm	T=25℃ IF =300A		1.58	1.80	V
Ird	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM		_	0.3 5	mA mA

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Performance Curves

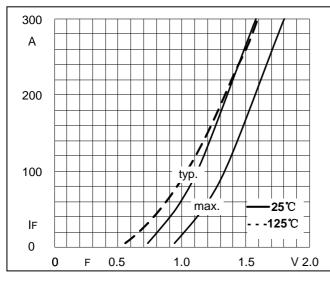


Fig1. Forward Characteristics

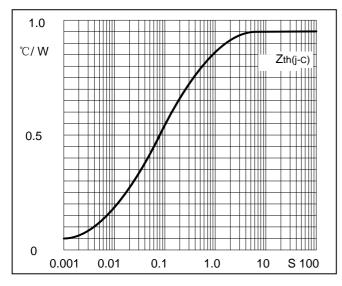


Fig3. Transient thermal impedance

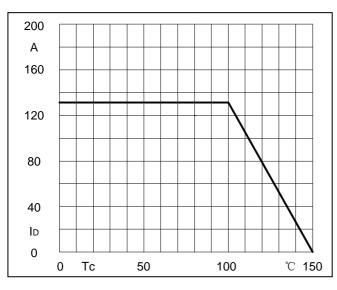


Fig5.Forward Current Derating Curve

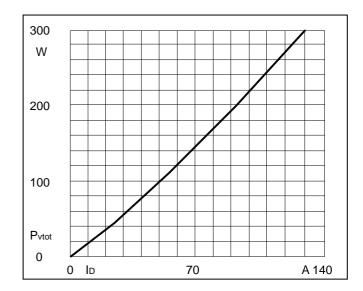


Fig2. Power dissipation

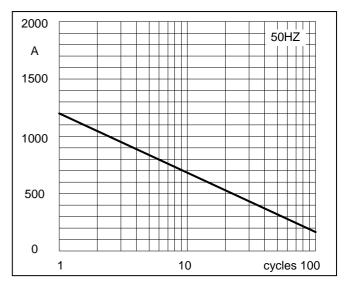


Fig4. Max Non-Repetitive Forward Surge Current

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Revision: A



Ordering Information :

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

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