

Features

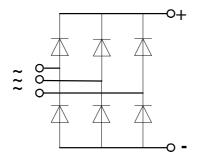
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Blocking voltage:1600 V
- Glass passivated chip

Applications

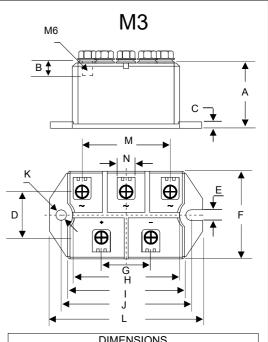
- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers

MCC Part Number	V _{RRM}	V _{RSM}
MD130S16M3	1600V	1700V





130 Amp GLASS PASSIVATED THREE PHASE RECTIFIER BRIDGE 1600 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	1.165	1.213	29.60	30.80	
В	0.236	0.315	6.00	8.00	
С	0.098	0.138	2.50	3.50	
D	1.043	1.083	26.50	27.50	
E	0.236	0.276	6.00	7.00	
F	2.106	2.146	53.50	54.50	
G	0.965	1.004	24.50	25.50	
Н	2.579	2.618	65.50	66.50	
I	2.815	2.854	71.50	72.50	
J	3.130	3.169	79.50	80.50	
K	0.256		6.50		Φ
L	3.681	3.720	93.50	94.50	
М	2.028	2.067	51.50	52.50	
Ν	0.453	0.492	11.50	12.50	



Maximum Ratings

Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=100℃	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
T∨j		-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 (Approximately)	230	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.90	°C/W
Rth(c-s)	Module(Approximately)	0.03	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		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



Performance Curves

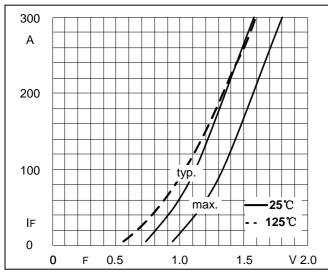


Fig1. Forward Characteristics

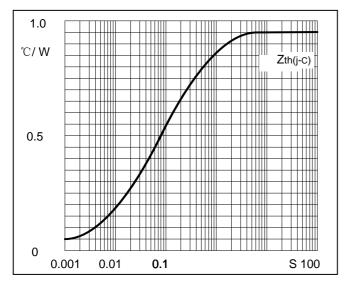


Fig3. Transient thermal impedance

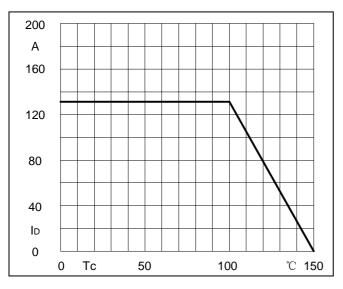


Fig5.Forward Current Derating Curve

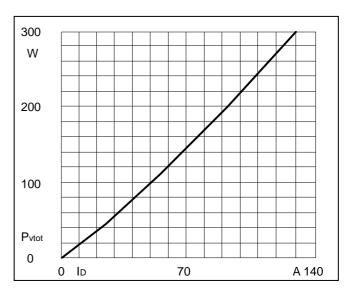


Fig2. Power dissipation

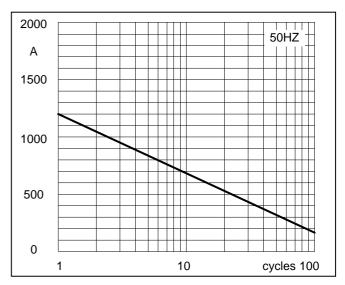


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information

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

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