



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 MD100S08M3 MD100S12M3 MD100S16M3 MD100S18M3

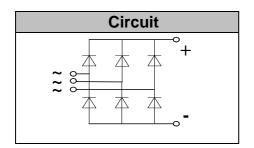
Features

- 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

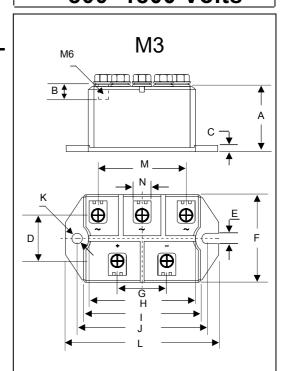
Applications

- Three phase rectifiers for power supplies
- · Rectifiers for DC motor field supplies
- Input rectifiers for variable frequency drives





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



		DIMEN	ISIONS			
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOIL	
Α	1.161	1.201	29.50	30.50		
В	0.256	0.295	6.50	7.50		
С	0.110	0.138	2.80	3.50		
D	1.043	1.083	26.50	27.50		
Е	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		
	2.815	2.854	71.50	72.50		
J	3.130	3.169	79.50	80.50		
K	0.256		6.50		Ф	
L	3.681	3.720	93.50	94.50		
М	2.028	2.067	51.50	52.50		
N	0.453	0.492	11.50	12.50		



Module Type

TYPE	VRRM	Vrsm
MD100S08M3	800V	900V
MD100S12M3	1200V	1300V
MD100S16M3	1600V	1700V
MD100S18M3	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units	
ID	Three phase, full wave Tc=100°C	100	Α	
IFSM	t=10mS Tvj =45℃	920	Α	
i ² t	t=10mS Tvj =45°C	4200	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 (Approximately)	230	g	

Thermal Characteristics

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

Electrical Characteristics

Symbol	Conditions	Values			Unito
		Min.	Тур.	Max.	Units
VFM	T=25℃ IF =300A	_	1.70	1.90	V
IRD	Tvj=25°C VRD=VRRM Tvj=150°C VRD=VRRM	_	_	0.3 5	mA mA



Performance Curves

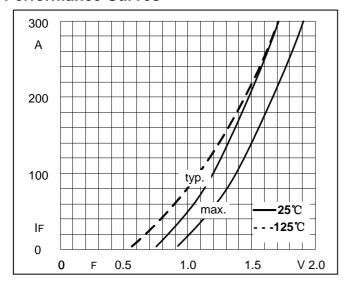


Fig1. Forward Characteristics

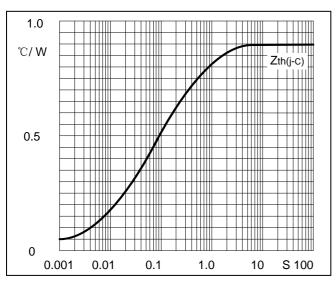


Fig3. Transient thermal impedance

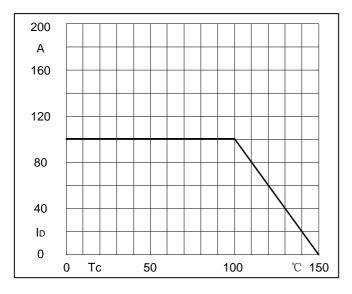


Fig5.Forward Current Derating Curve

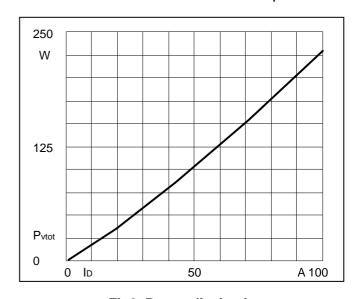


Fig2. Power dissipation

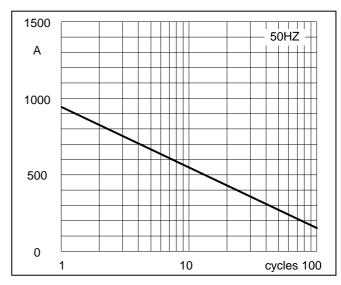


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

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

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