



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone:(818) 701-4933 Fax: (818) 701-4939 MD50S08M4 MD50S12M4 MD50S16M4 MD50S18M4

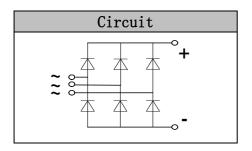
Features

- 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

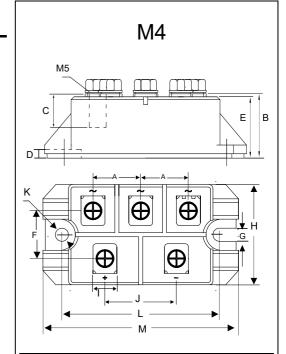
Applications

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- · Field supply for DC motors





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



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.768	.807	19.50	20.50	
В	.846	.886	21.50	22.50	
С	.433	.472	11.00	12.00	
D	.098	.138	2.50	3.50	
Е	.807	.846	20.50	21.50	
F	.768	.807	19.50	20.50	
G	.197	.236	5.00	6.00	
Н	1.63	1.67	41.50	42.50	
	.374	.413	9.50	10.50	
J	1.16	1.20	29.50	30.50	
K	.217		5.50		Ø
Ĺ	2.58	2.62	65.50	66.50	
М	3.21	3.25	81.50	82.50	



Module Type

TYPE	VRRM	Vrsm
MD50S08M4	800V	900V
MD50S12M4	1200V	1300V
MD50S16M4	1600V	1700V
MD50S18M4	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=110℃	50	Α
IFSM	t=10mS Tvj =45°C	460	Α
i ² t	t=10mS Tvj =45°C	1050	A^2s
Visol	a.c.50HZ;r.m.s.;	3000	V
Tvj		-40 to +150	$^{\circ}$ C
Tstg		-40 to +125	$^{\circ}$
Mt	To terminals(M5)	5±15%	Nm
Ms	To heatsink(M5)	5±15%	Nm
Weight	Module (Approximately)	146	g

Thermal Characteristics

Symbol	Conditions	Values	Units	
Rth(j-c)	Per diode	1.45	°C/ W	
Rth(c-s)	Module(Approximately)	0.07	°C/W	

Electrical Characteristics

Symbol	Conditions	Values			Units
Syllibol		Min.	Тур.	Max.	Ullits
VFM	T=25℃ IF =150A		1.45	1.7	V
IRD	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM	-	ı	0.3 5	mA mA



Performance Curves

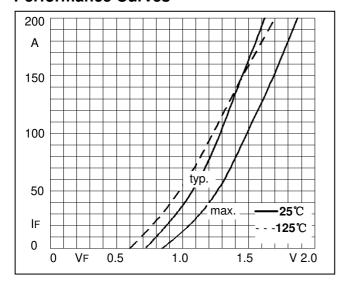


Fig1. Forward Characteristics

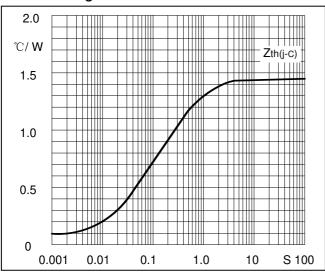


Fig3. Transient thermal impedance

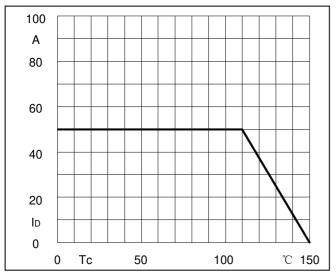


Fig5.Forward Current Derating Curve

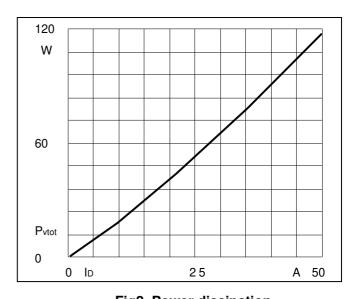


Fig2. Power dissipation

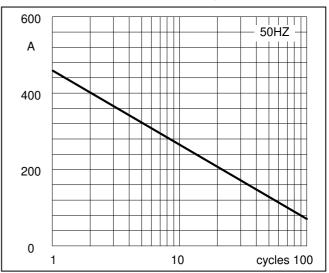


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

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

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