



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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

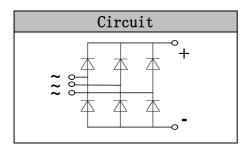
Features

- 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

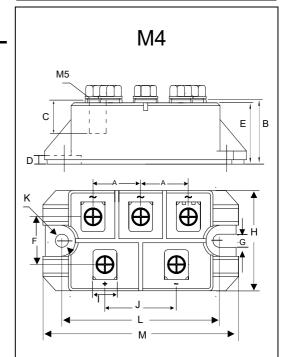
Applications

- 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	.776	.799	19.70	20.30	
В	.854	.878	21.70	22.30	
С	.440	.465	11.20	11.80	
D	.106	.130	2.70	3.30	
Е	.815	.839	20.70	21.30	
F	.776	.799	19.70	20.30	
G	.205	.228	5.20	5.80	
Н	1.64	1.67	41.70	42.30	
	.382	.406	9.70	10.30	
J	1.169	1.193	29.70	30.30	
K	.217		5.50		Ø
Ĺ	2.59	2.61	65.70	66.30	
М	3.22	3.24	81.70	82.30	



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℃	460	Α
i ² t	t=10mS Tvj =45℃	1050	A^2s
Visol	a.c.50HZ;r.m.s.;	3000	V
T∨j		-40 to +150	$^{\circ}$
Tstg		-40 to +125	$^{\circ}$
Mt	T terminals(M5)	5±15%	Nm
Ms	T heatsink(M5)	5±15%	Nm
Weight	Module (Approximately)	146	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Pe diode	1.45	°C/W
Rth(c-s)	е	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

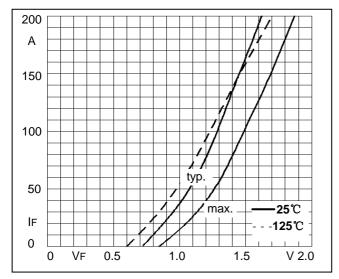


Fig1. Forward Characteristics

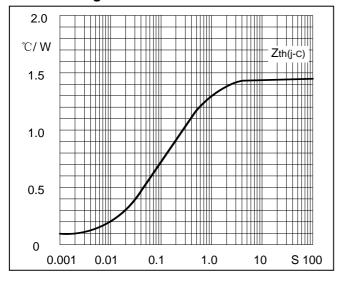


Fig3. Transient thermal impedance

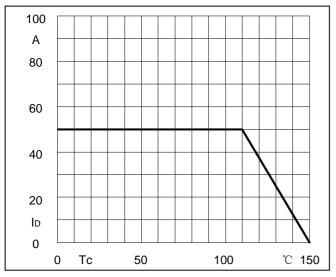


Fig5.Forward Current Derating Curve

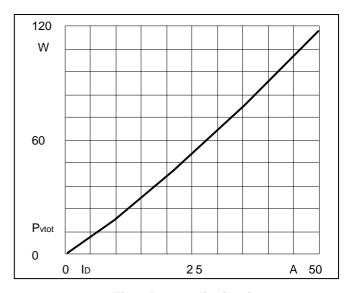


Fig2. Power dissipation

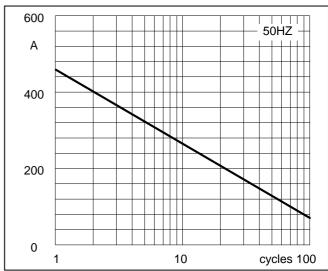


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

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

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