

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

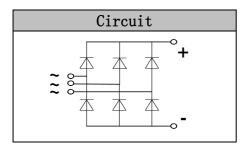
Features

- 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

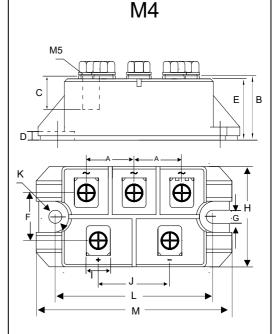
- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers





MD75S08M4 MD75S12M4 MD75S16M4 MD75S18M4

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



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.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	
Ш	.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	
ſ	1.16	1.20	29.50	30.50	
К	.21	7	5.	50	Ø
Г	2.58	2.62	65.50	66.50	
М	3.21	3.25	81.50	82.50	

www.mccsemi.com



Module Type

ТҮРЕ	VRRM	Vrsm
MD75S08M4	800V	900V
MD75S12M4	1200V	1300V
MD75S16M4	1600V	1700V
MD75S18M4	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units	
ID	Three phase, full wave Tc=110 $^{\circ}$ C	75	А	
IFSM	t=10mS Tvj =45℃	750	А	
i ² t	t=10mS Tvj =45℃	2800	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(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	1.10	°C/W
Rth(c-s)	Module (Approximately)	0.07	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
Symbol		Min.	Тур.	Max.	Units
VFM	T=25℃ IF =150A	Ι	1.38	1.5	V
Ird	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM	_	_	0.3 5	mA mA

-www.mccsemi.com



Performance Curves

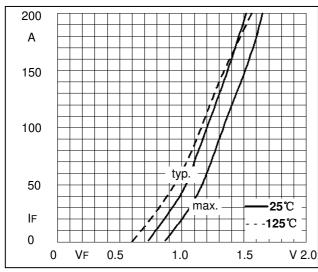


Fig1. Forward Characteristics

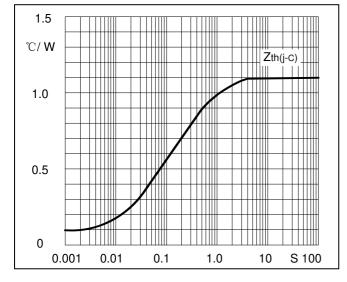


Fig3. Transient thermal impedance

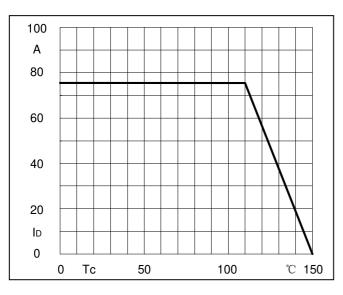


Fig5.Forward Current Derating Curve

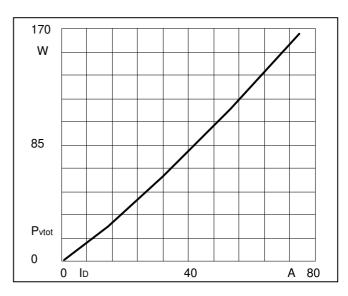


Fig2. Power dissipation

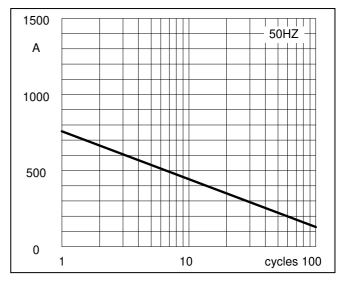


Fig4. Max Non-Repetitive Forward Surge Current

www.mccsemi.com



Ordering Information :

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com