

**Micro Commercial Components** 



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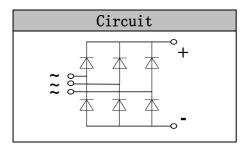
## Features

- 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**

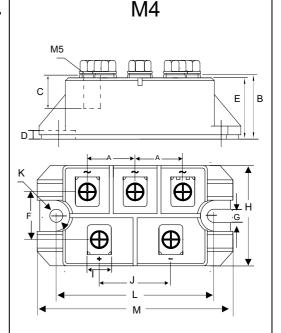
- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers

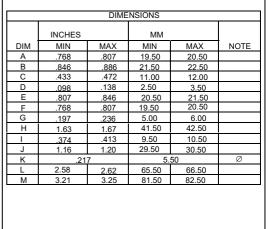




MD75S08M4 MD75S12M4 MD75S16M4 MD75S18M4

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





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### 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℃	75	А	
IFSM	t=10mS Tvj =45℃	750	А	
i <sup>2</sup> t	t=10mS Tvj =45℃	2800	A <sup>2</sup> 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		1.38	1.5	V
Ird	Tvj=25℃ VRD=VRRM Tvj=150℃ VRD=VRRM	_	_	0.3 5	mA mA

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#### **Performance Curves**

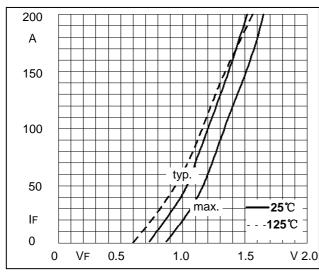


Fig1. Forward Characteristics

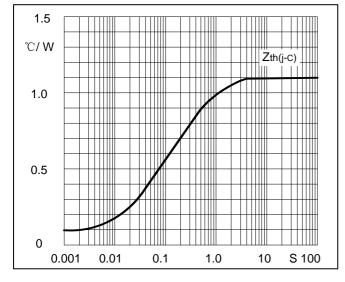


Fig3. Transient thermal impedance

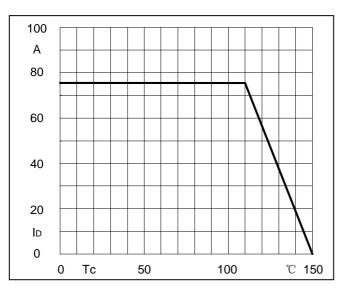


Fig5.Forward Current Derating Curve

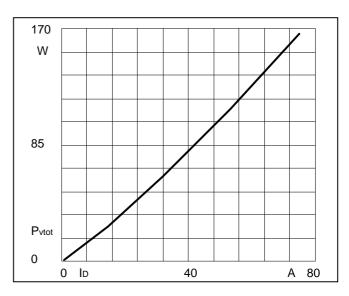


Fig2. Power dissipation

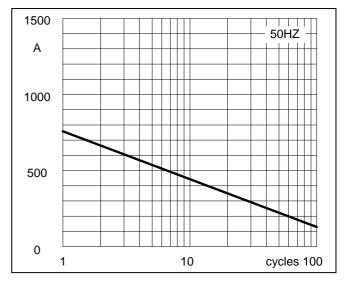


Fig4. Max Non-Repetitive Forward Surge Current

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### **Ordering Information :**

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

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