

## Glass Passivated Three Phase Rectifier Bridge

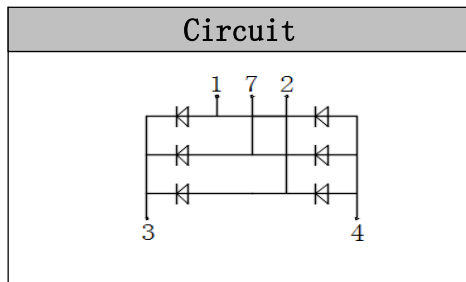
**VRRM** 800 to 1800V  
**ID** 50A

### Applications

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

### Features

- Three phase bridge rectifier
- Blocking voltage: 800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip



### Module Type

TYPE	VRRM	VRSM
MD50S08M1	800V	900V
MD50S12M1	1200V	1300V
MD50S16M1	1600V	1700V
MD50S18M1	1800V	1900V

### Maximum Ratings

Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=96°C	50	A
IFSM	t=10mS Tvj =45°C	460	A
i²t	t=10mS Tvj =45°C	1050	A²s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	°C
Tstg		-40 to +125	°C
Ms	To heat sink(M5)	3±15%	Nm
Weight	Module (Approximately)	78	g

### Thermal Characteristics

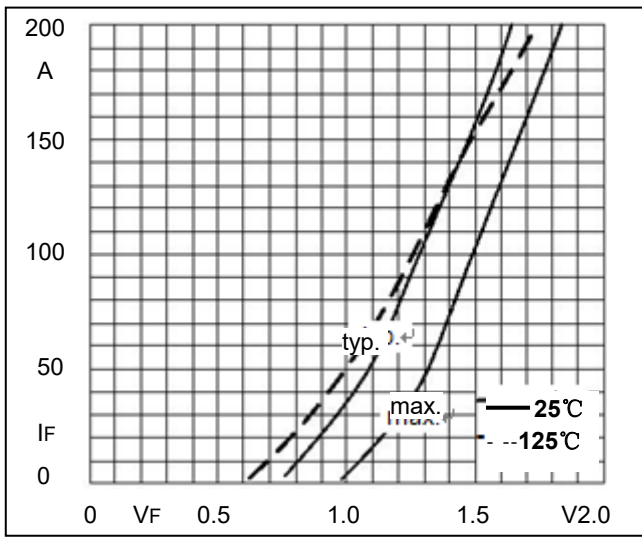
Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	1.5	°C/W
Rth(c-s)	Module	0.2	°C/W

### Electrical Characteristics

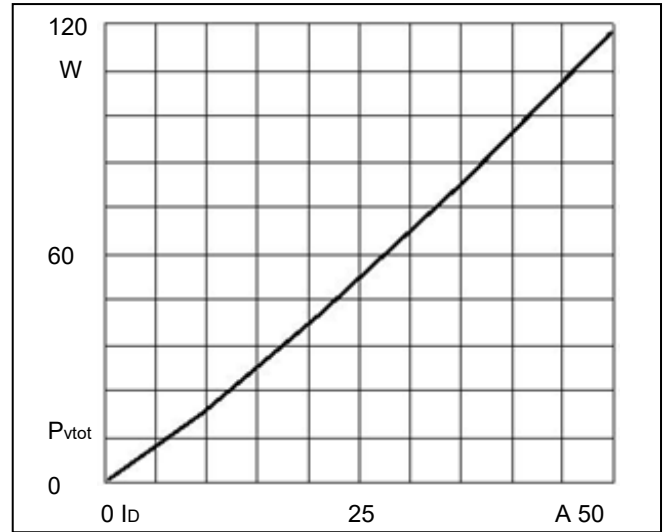
Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
VFM	T=25°C IF =150A	—	1.3	1.5	V
IRD	Tvj=25°C VRD=VRRM Tvj=150°C VRD=VRRM	—	—	0.2 3	mA mA



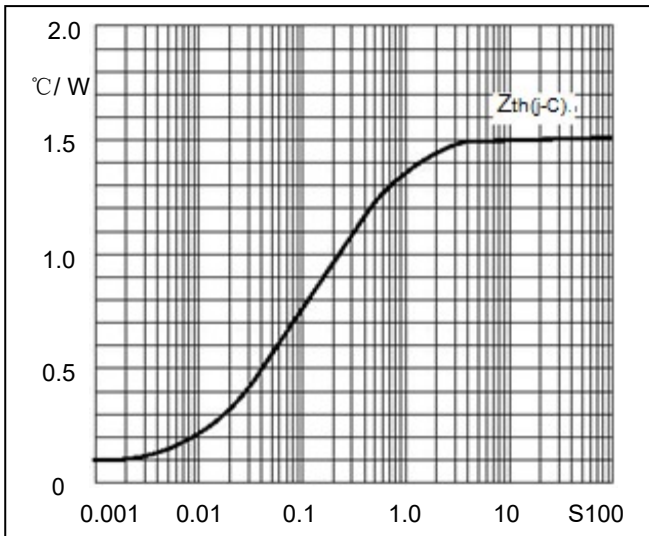
### Performance Curves



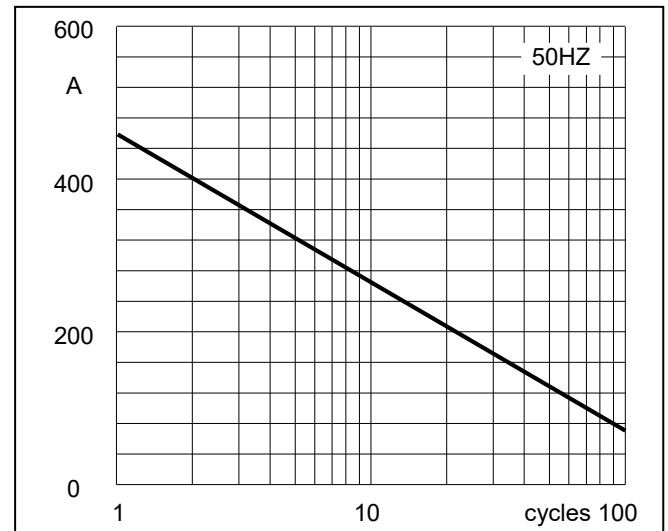
**Fig1. Forward Characteristics**



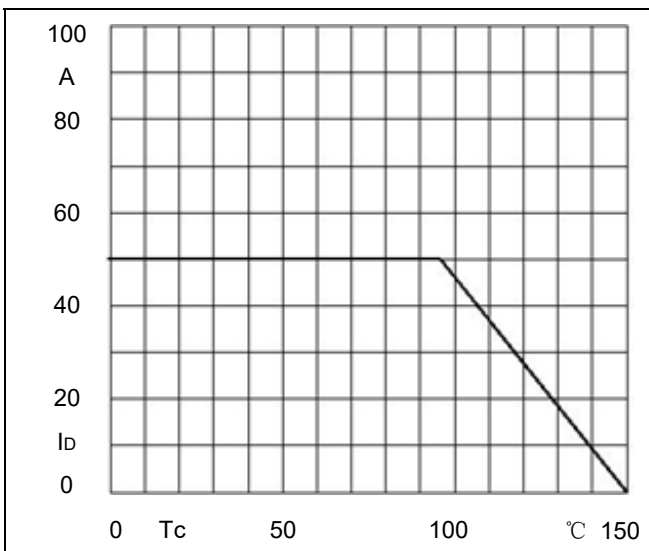
**Fig2. Power dissipation**



**Fig3. Transient thermal impedance**



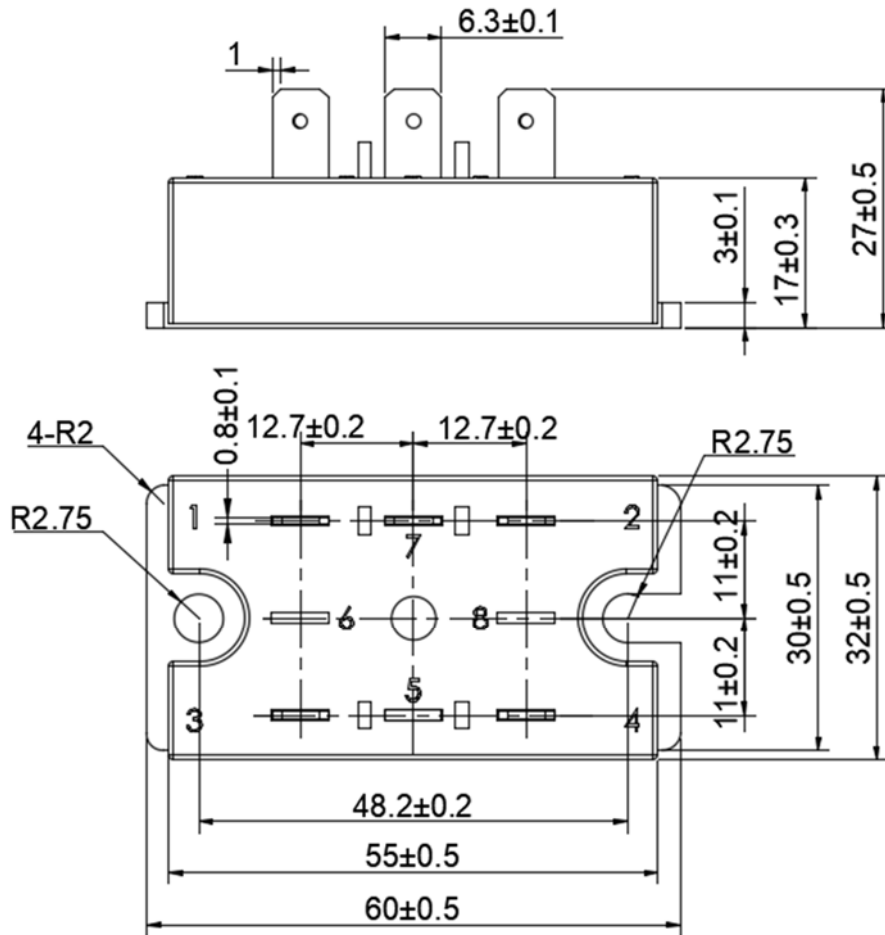
**Fig4. Max Non-Repetitive Forward Surge Current**



**Fig5. Forward Current Derating Curve**

## Package Outline Information

CASE: M1



Dimensions in mm

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