

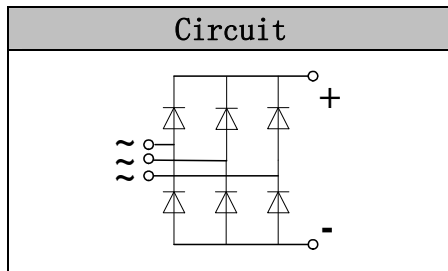


Glass Passivated Three Phase Rectifier Bridge

VRRM 800 to 1800V
ID 100 A

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	V _{RSM}
MD100S08NM2	800V	900V
MD100S12NM2	1200V	1300V
MD100S16NM2	1600V	1700V
MD100S18NM2	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I_D	Three phase, full wave $T_c=100^\circ\text{C}$	100	A
I_{FSM}	$t=10\text{mS}$ $T_{vj}=45^\circ\text{C}$	750	A
i^2t	$t=10\text{mS}$ $T_{vj}=45^\circ\text{C}$	4200	A^2s
V_{isol}	a.c.50HZ;r.m.s.;1min	3000	V
T_{vj}		-40 to +150	$^\circ\text{C}$
T_{stg}		-40 to +125	$^\circ\text{C}$
M_t	To terminals(M5)	$3\pm 15\%$	Nm
M_s	To heatsink(M5)	$3\pm 15\%$	Nm
Weight	Module (Approximately)	130	g

Thermal Characteristics

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	Per diode	1.0	$^\circ\text{C/W}$
$R_{th(c-s)}$	Module (Approximately)	0.07	$^\circ\text{C/W}$

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V_{FM}	$T=25^\circ\text{C}$ $I_F=150\text{A}$	—	1.70	1.90	V
I_{RD}	$T_{vj}=25^\circ\text{C}$ $V_{RD}=V_{RRM}$	—	—	0.3	mA
	$T_{vj}=150^\circ\text{C}$ $V_{RD}=V_{RRM}$	—	—	5	mA



Performance Curves

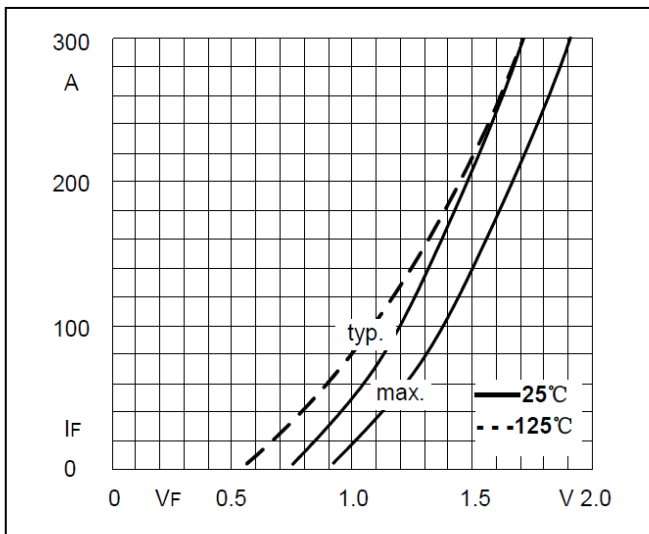


Fig1. Forward Characteristics

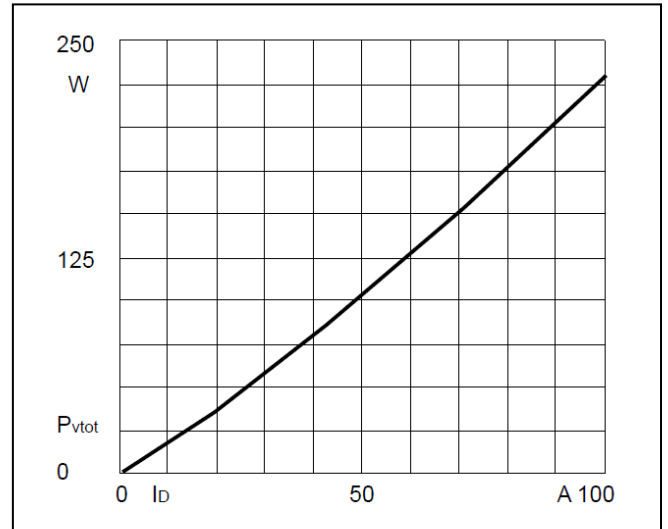


Fig2. Power dissipation

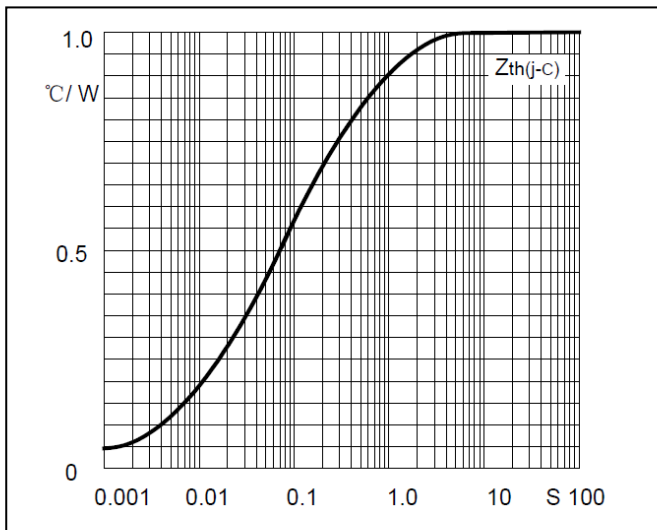


Fig3. Transient thermal impedance

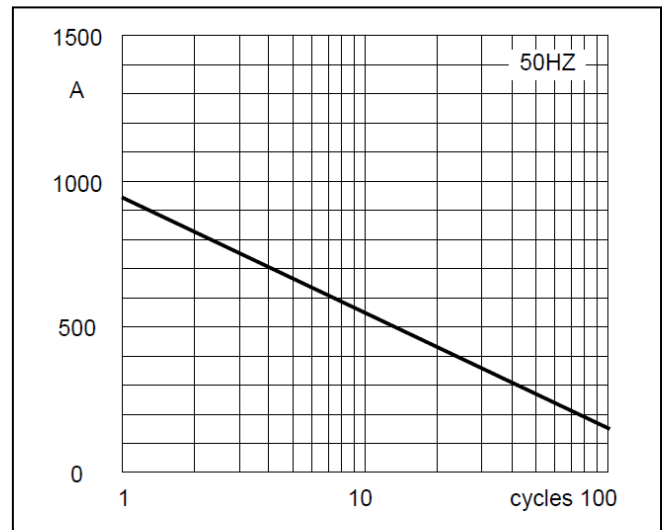


Fig4. Max Non-Repetitive Forward Surge Current

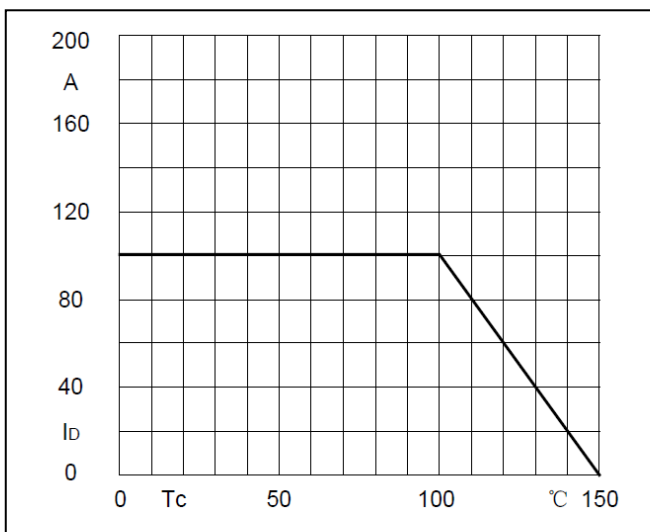
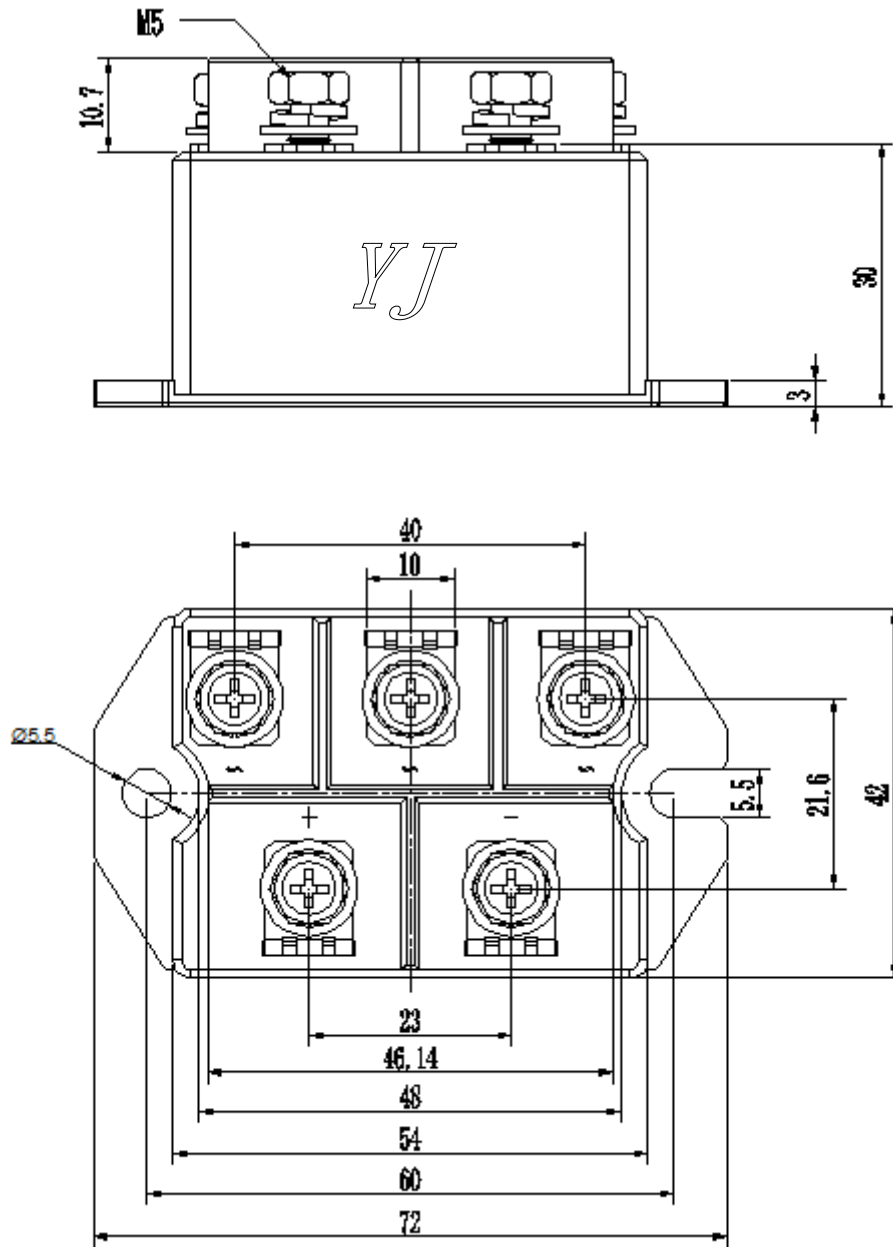


Fig5. Forward Current Derating Curve

Package Outline Information

CASE: M2



Dimensions in mm

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