

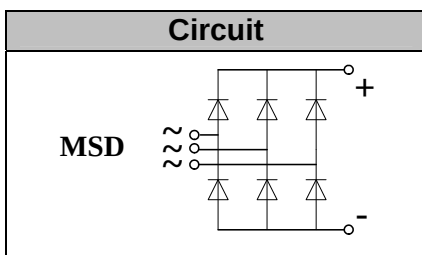


Glass Passivated Three Phase Rectifier Bridge

VRRM 1600V
ID 75 Amp

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: 1600V
- Heat transfer through aluminum oxide DCB ceramic isolated metal baseplate
- Glass passivated chip

Module Type

TYPE	VRRM	VRSM
MSD75 - 16	1600V	1700V

Maximum Ratings

Symbol	Conditions	Values	Units
ID	Tc=110°C	75	A
IFSM	T=10mS Tvj =45°C	750	A
i ² t	T=10mS Tvj =45°C	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	130	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	1.1	°C/W
Rth(c-s)	Module	0.07	°C/W

Electrical Characteristics

Symbol	Conditions	Values	Units
VFM	T=25°C IFM =150A	1.6	V
IRD	Tvj =25°C VRD=VRRM Tvj =150°C VRD=VRRM	≤0.3 ≤5	mA mA

Performance Curves

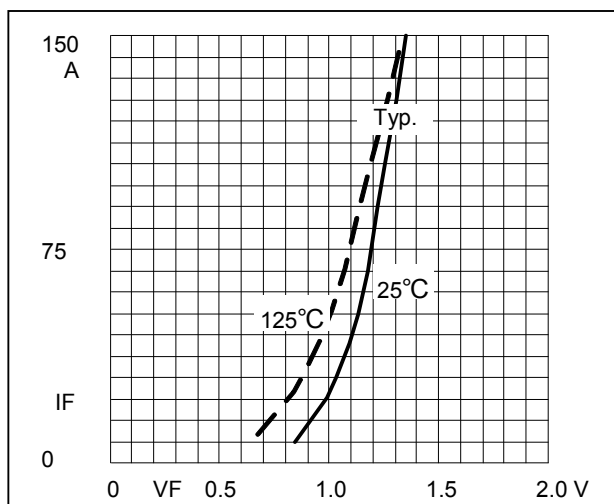


Fig1. Forward Characteristics

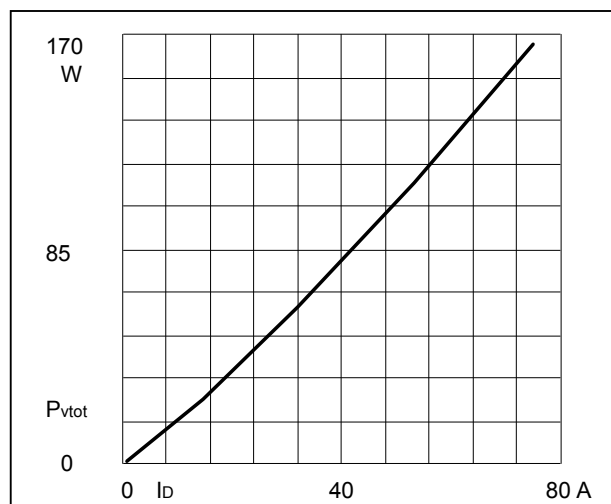


Fig2. Power dissipation

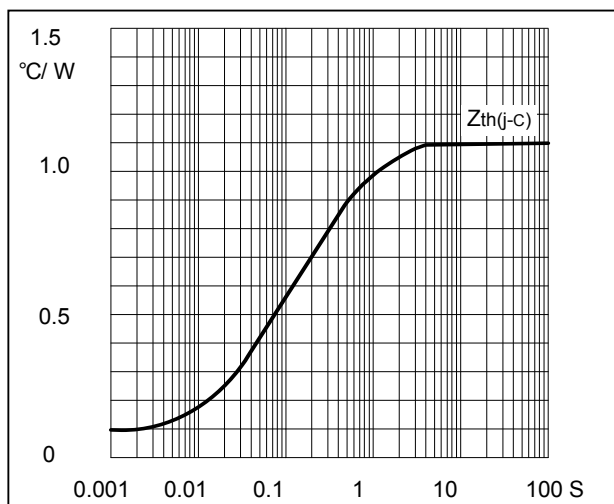


Fig3. Transient thermal impedance

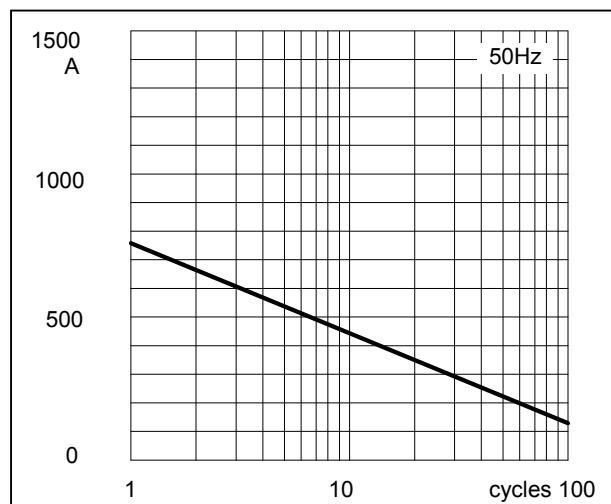


Fig4. Max Non-Repetitive Forward Surge Current

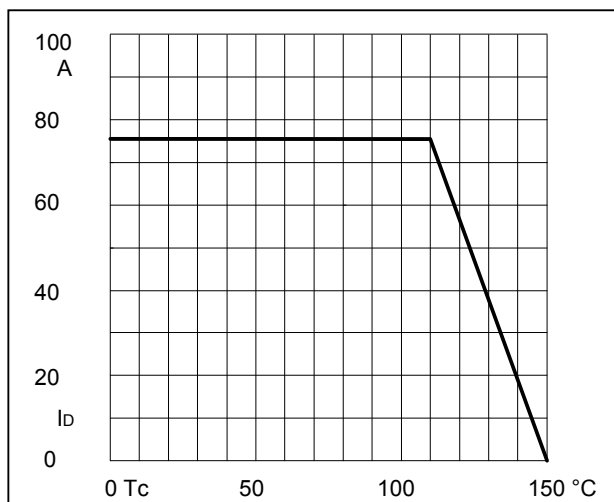
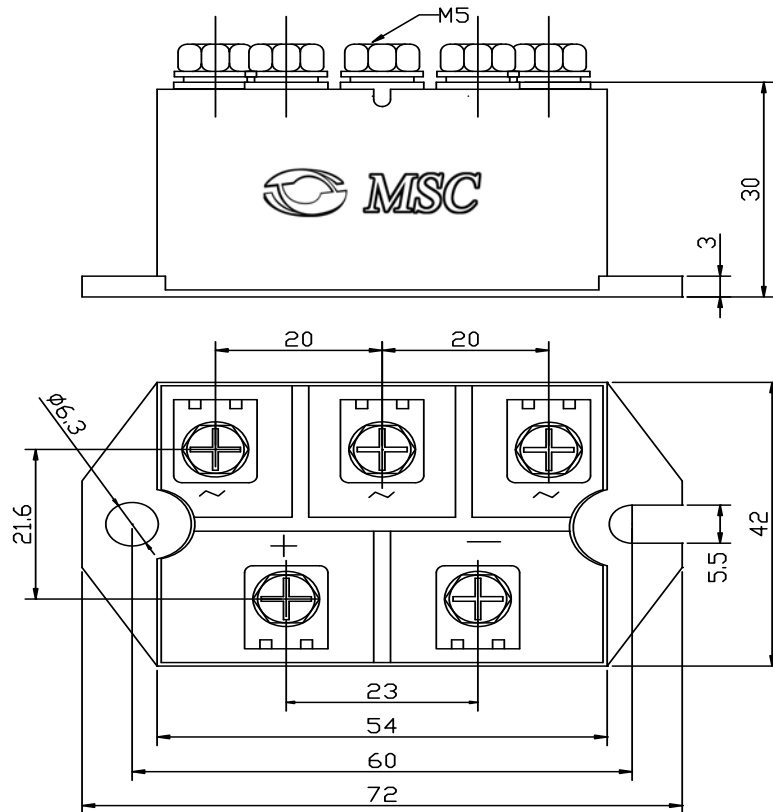


Fig5. Forward Current Derating Curve

Package Outline Information

CASE-M2



Dimensions in mm