Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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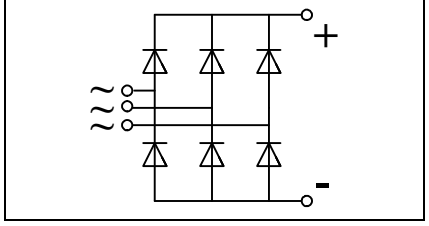
Glass Passivated Three Phase Rectifier Bridge

V_{RRM} 800 to 1800V
I_D 75Amp

Circuit



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	V_{RRM}	V_{RSM}
MSDM75-08	800V	900V
MSDM75-12	1200V	1300V
MSDM75-16	1600V	1700V
MSDM75-18	1800V	1900V

Maximum Ratings

Symbol	Item	Conditions	Values	Units
I_D	Output current (D.C)	Tc=100℃	75	A
I_{FSM}	Forward surge current, max.	t=10mS Tvj =45℃	750	A
i^2t	Value for fusing		2800	A^2s
Visol	Isolation Breakdown Voltage(R.M.S)	a.c.50HZ;r.m.s.;1min	3000	V
Tvj	Operating Junction Temperature		-40 to +150	℃
Tstg	Storage Temperature		-40 to +150	℃
Mounting Torque	To terminals(M5)		3±15%	Nm
	To heatsink(M5)		5±15%	Nm
Weight	Approximate Weight	Module	145	g

Thermal Characteristics

Symbol	Item	Conditions	Values	Units
$R_{th(j-c)}$	Thermal Impedance, max.	Per Module	0.20	℃/W

Electrical Characteristics

Symbol	Item	Conditions	Values			Units
			Min.	Typ.	Max.	
V_{FM}	Forward Voltage Drop, max.	T=25℃ I_F =150A		1.38	1.60	V
I_{RRM}	Repetitive Peak Reverse Current, max.	Tvj =25℃ V_{RD}=V_{RRM} Tvj =150℃ V_{RD}=V_{RRM}			0.5 5	mA mA

Performance Curves

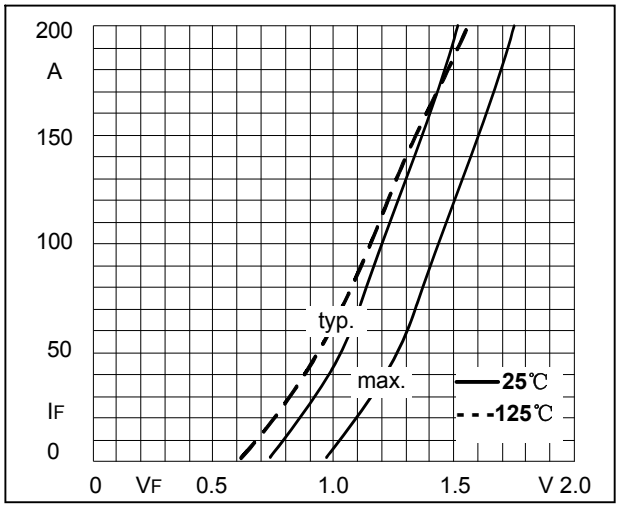


Fig1. Forward Characteristics

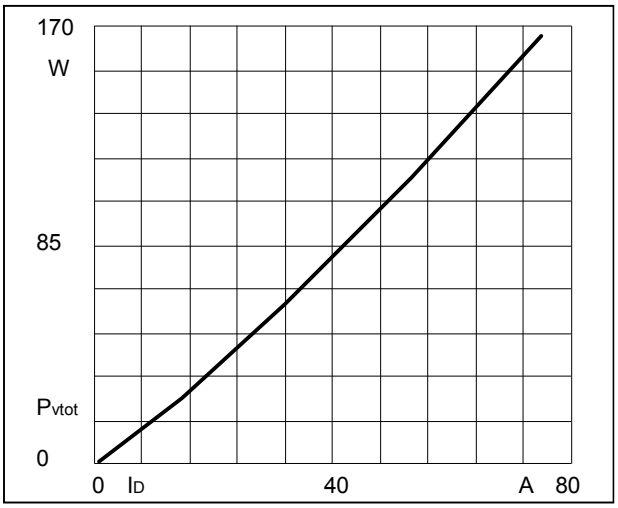


Fig2. Power dissipation

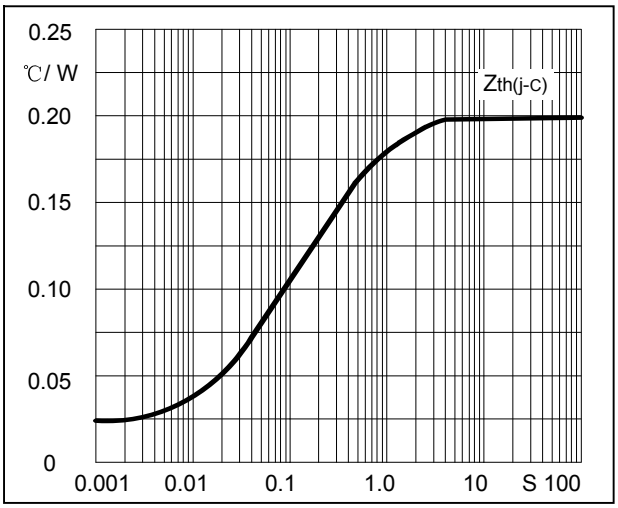


Fig3. Transient thermal impedance

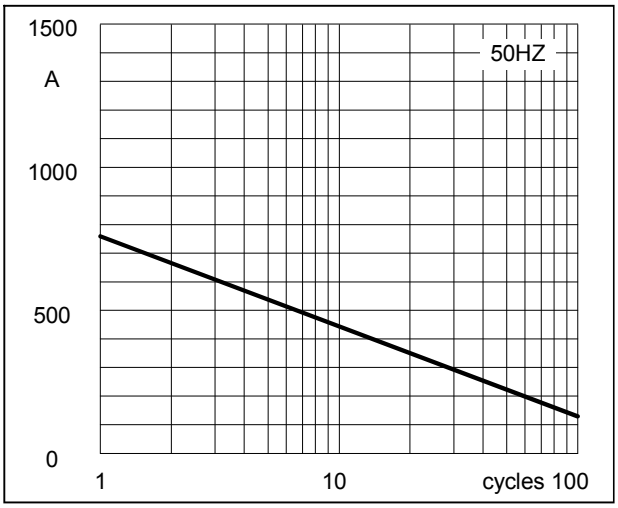


Fig4. Max Non-Repetitive Forward Surge Current

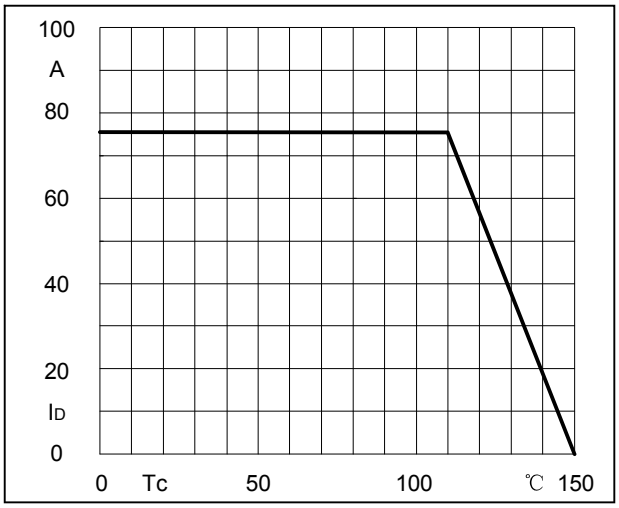
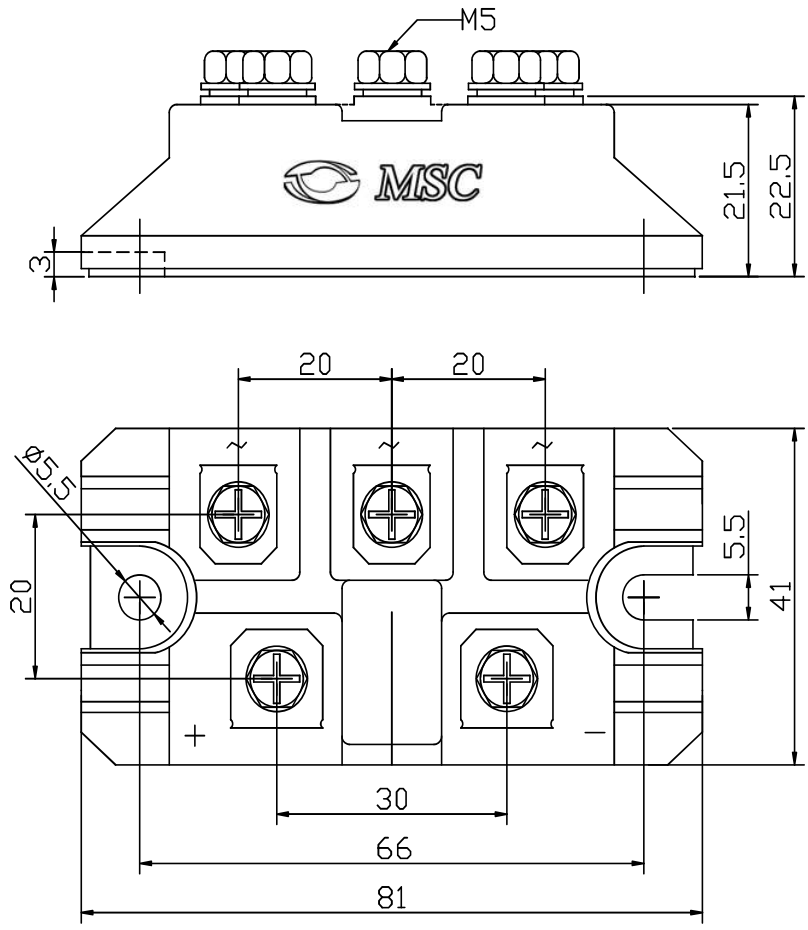


Fig5.Forward Current Derating Curve

Package Outline Information

CASE: M2-1



Dimensions in mm