

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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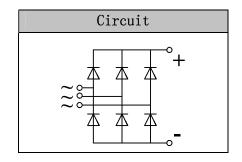












Glass Passivated Three Phase Rectifier Bridge

VRRM 800 to 1800V **ID** 100Amp

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		
MSDM100-08	800V	900V		
MSDM100-12	1200V	1300V		
MSDM100-16	1600V	1700V		
MSDM100-18	1800V	1900V		

Maximum Ratings

Symbol	Item	Conditions	Values	Units
ID	Output current (D.C)	Tc=100°C	100	Α
IFSM	Forward surge current, max.	t=10mS Tvj =45℃	920	Α
i ² t	Value for fusing		4200	A ² s
Visol	Isolation Breakdown Voltage(R.M.S)	a.c.50HZ;r.m.s.;1min	3000	V
Tvj	Operating Junction Temperature		-40 to +150	$^{\circ}$ C
Tstg	Storage Temperature		-40 to +150	$^{\circ}$ C
Mounting	To terminals(M5)		3±15%	Nm
Torque	To heatsink(M5)		5±15%	Nm
Weight	Approximate Weight	Module	145	g

Thermal Characteristics

Symbol	Item	Conditions	Values	Units
Rth(j-c)	Thermal Impedance, max.	Per Module	0.18	°C/W

Flectrical Characteristics

	Item	Conditions	Values			
Symbol			Min.	Тур.	Max.	Units
VFM	Forward Voltage Drop, max.	T=25℃ IF =300A		1.70	1.90	V
IRRM	Repetitive Peak Reverse Current, max.	Tvj =25℃ VRD=VRRM Tvj =150℃ VRD=VRRM			0.5 5	mA mA



Performance Curves

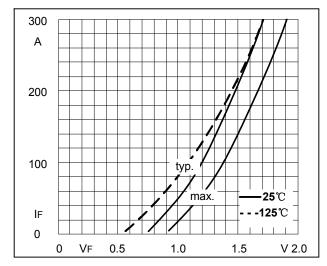


Fig1. Forward Characteristics

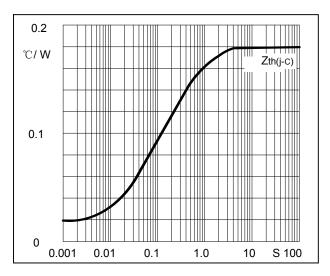


Fig3. Transient thermal impedance

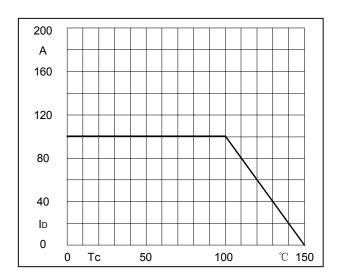


Fig5.Forward Current Derating Curve

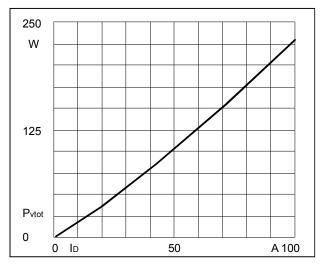


Fig2. Power dissipation

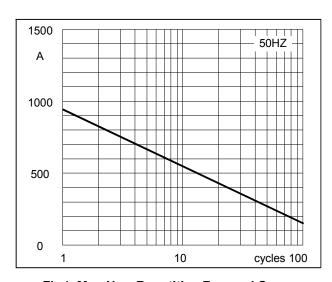


Fig4. Max Non-Repetitive Forward Surge Current



Package Outline Information

