MD200S-M3

RoHS COMPLIANT



Glass Passivated Three Phase Rectifier Bridge

V_{RRM} 800 to 1800V
I_D 200 A

Features

- Three phase bridge rectifier
- Blocking voltage:800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip
- UL recogni 2gnissi3Vc-.0025 Tw[U6.52 323.52 502.3403 T0

Module Type

TYPE	V_{RRM}	V_{RSM}
MD200S08M3	800V	900V
MD200S12M3	1200V	1300V
MD200S16M3	1600V	1700V
MD200S18M3	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I_D	Three phase, full wave Tc=100	200	A
I_{FSM}	t=10mS Tvj =45	2240	A
i^2t	t=10mS Tvj =45	25000	A^2s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	
Tstg		-40 to +125	
Mt	To terminals(M6)	5±15%	Nm
Ms	To heat sink(M6)	5±15%	Nm
Weight	Module (Approximately)	230	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.45	/W
Rth(c-s)	Module (Approximately)	0.025	/W

Electrical Characteristics

Performance Curves

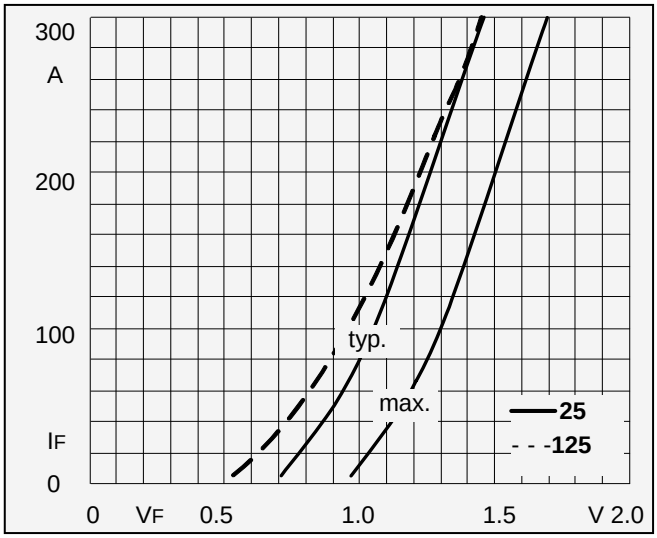


Fig1. Forward Characteristics

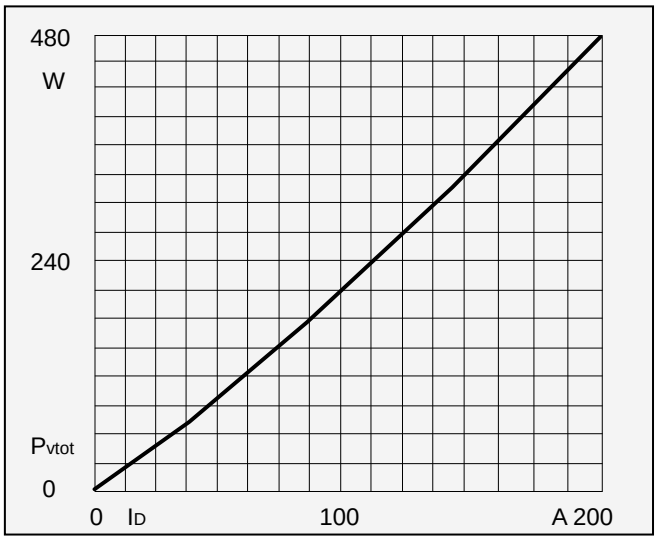


Fig2. Power dissipation

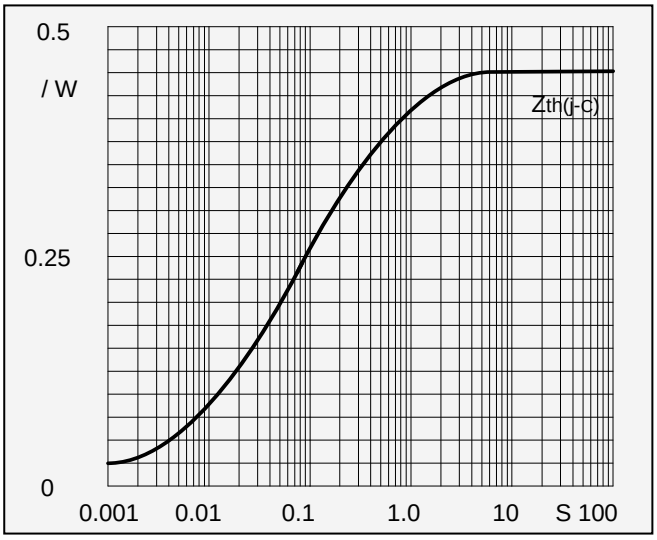


Fig3. Transient thermal impedance

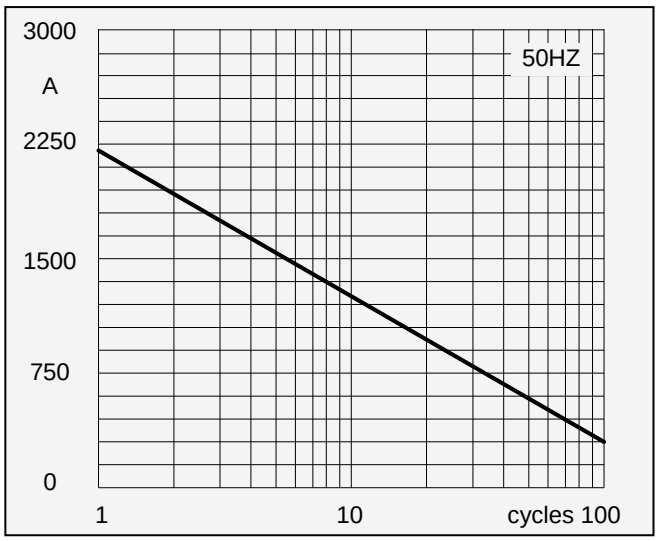


Fig4. Max Non-Repetitive Forward Surge Current

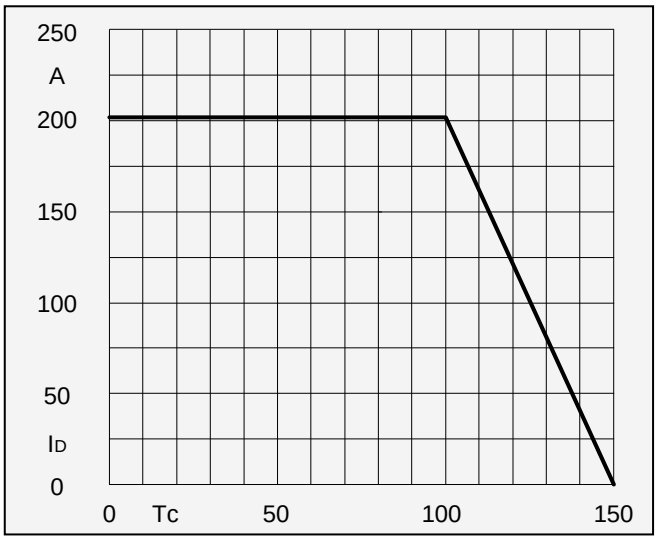
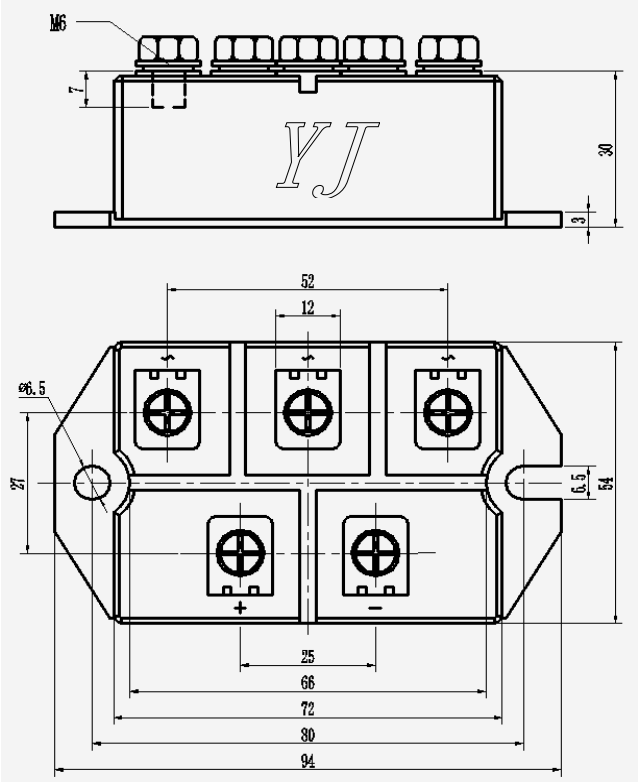


Fig5.Forward Current Derating Curve

Package Outline Information

CASE M3



Dimensions in mm