



Glass Passivated Three Phase Rectifier Bridge

VRRM 800 to 1800V

ID 100 A

Applications

- Three phase rectifiers for power supplies

Features

- Three phase bridge rectifier
- Blocking voltage:800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip

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Module Type

TYPE	VRRM	VRSM
MD100S08NM2	800V	900V
MD100S12NM2	1200V	1300V
MD100S16NM2	1600V	1700V
MD100S18NM2	1800V	1900V

Maximum Ratings

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

Thermal Characteristics

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

Electrical Characteristics

Performance Curves

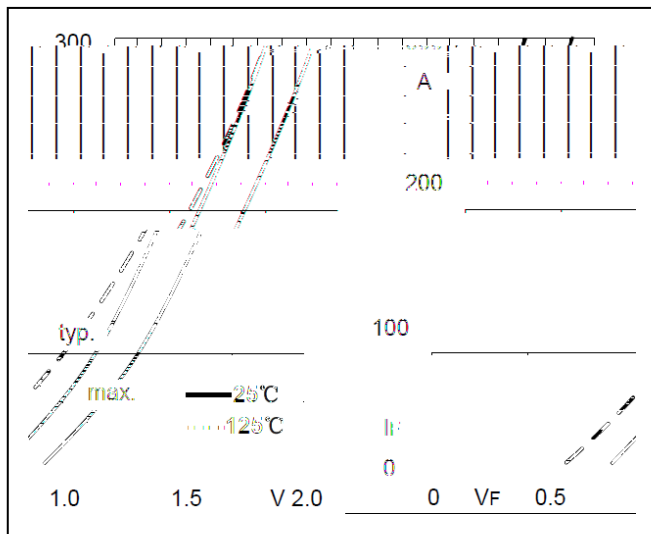


Fig1. Forward Characteristics

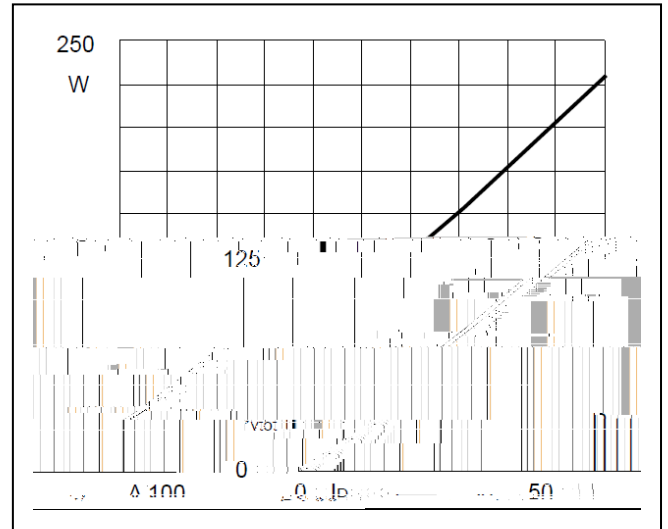


Fig2. Power dissipation

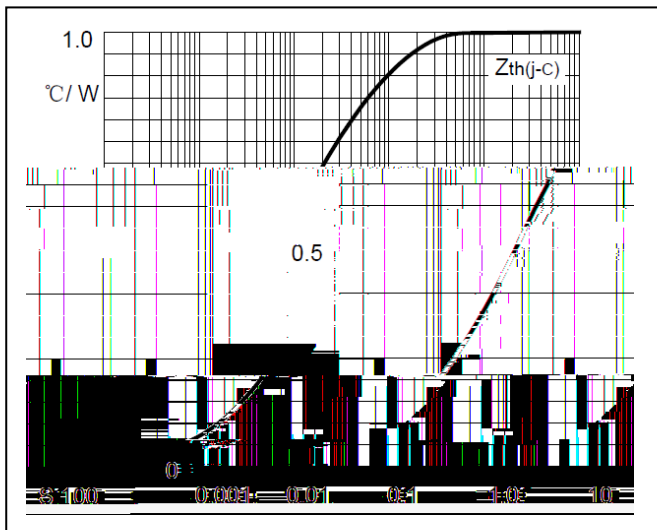


Fig3. Transient thermal impedance

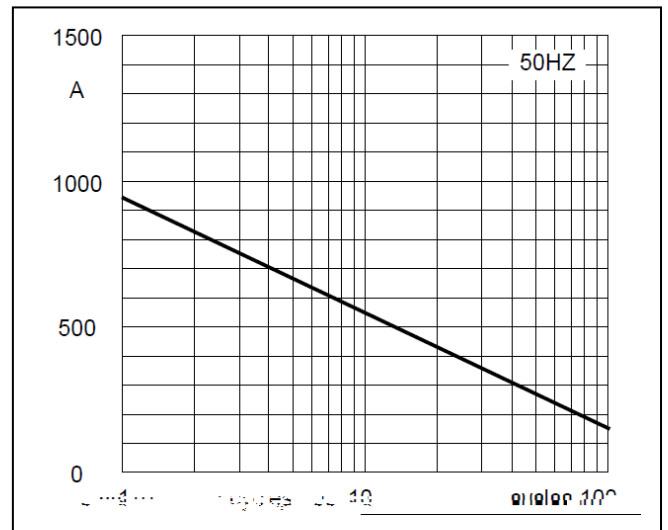


Fig4. Max Non-Repetitive Forward Surge Current

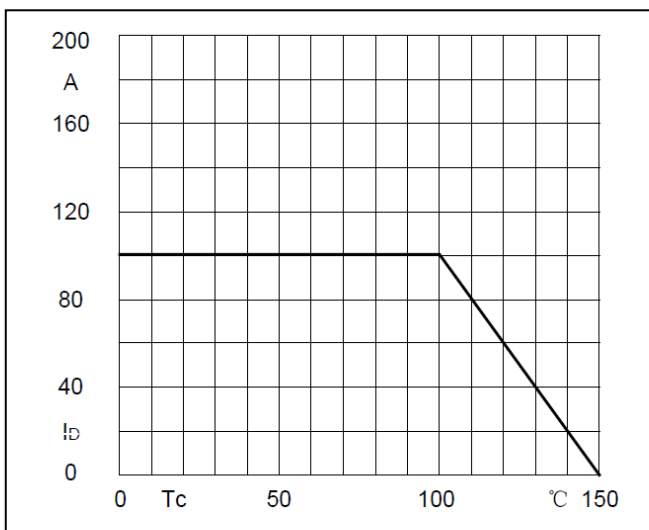


Fig5. Forward Current Derating Curve

Package Outline Information

