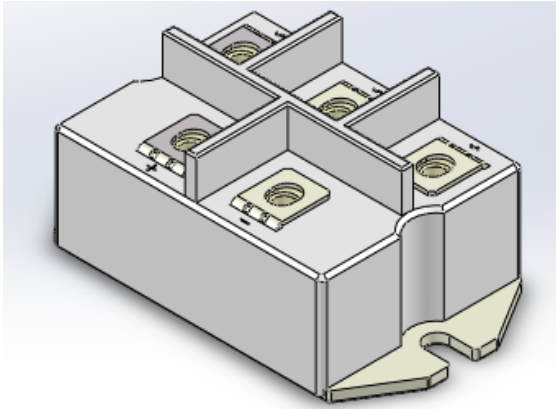




Glass Passivated Three Phase Rectifier Bridge

VRRM 2000V
ID 200 A

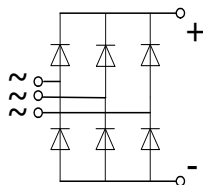
Applications

- 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:2000V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip

Circuit



Module Type

TYPE	VRRM	VRSM
MD200S08NM3	800V	900V
MD200S12NM3	1200V	1300V
MD200S16NM3	1600V	1700V
MD200S18NM3	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=100℃	200	A
IFSM	t=10mS Tvj =45℃	2240	A
i ² t	t=10mS Tvj =45℃	25000	A ² s
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

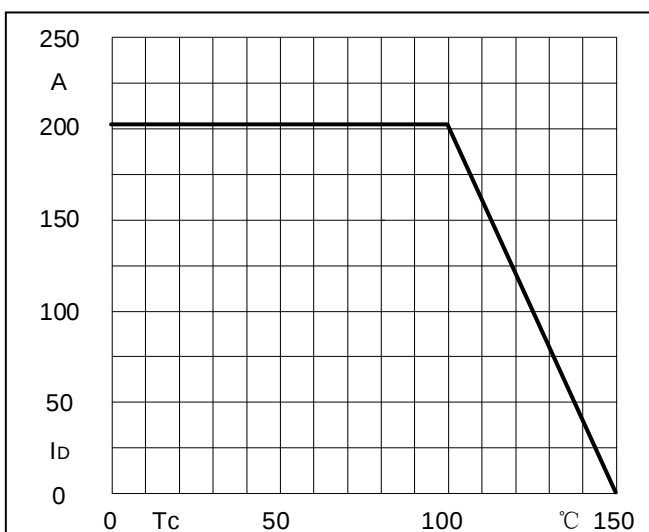
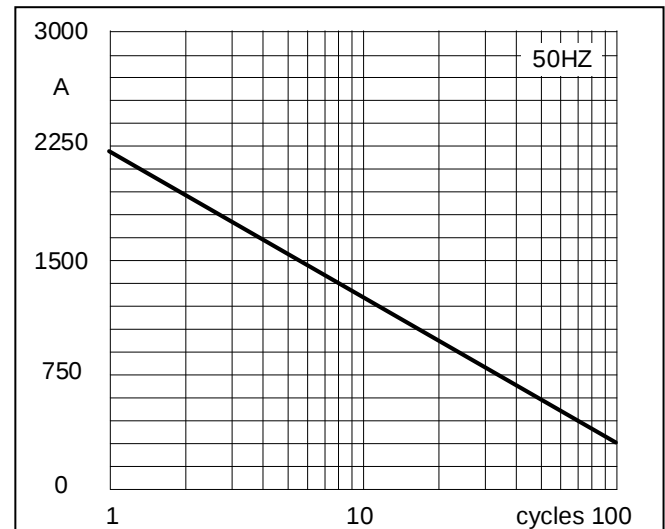
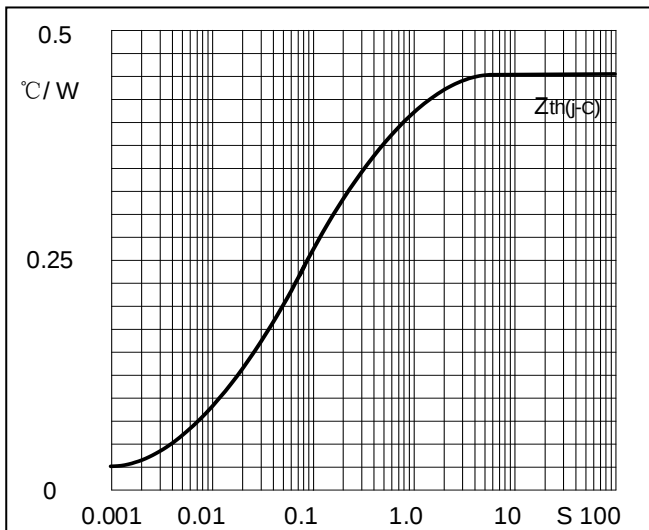
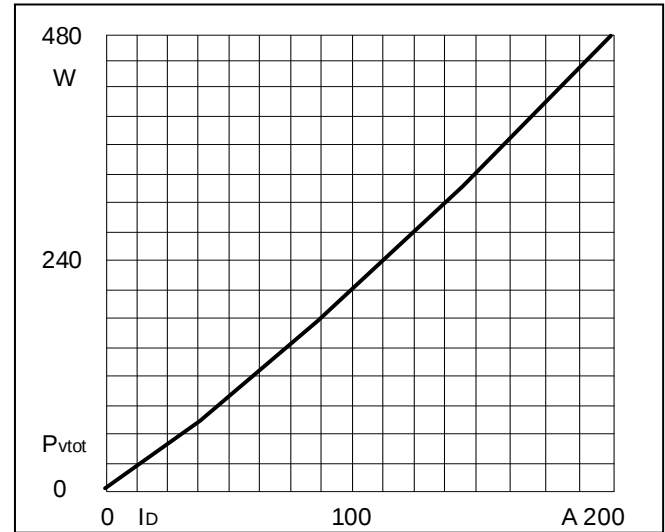
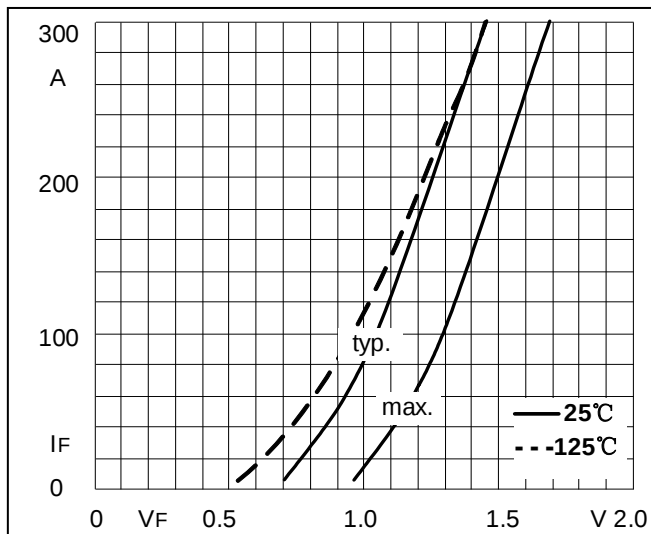
Thermal Characteristics

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

Electrical Characteristics

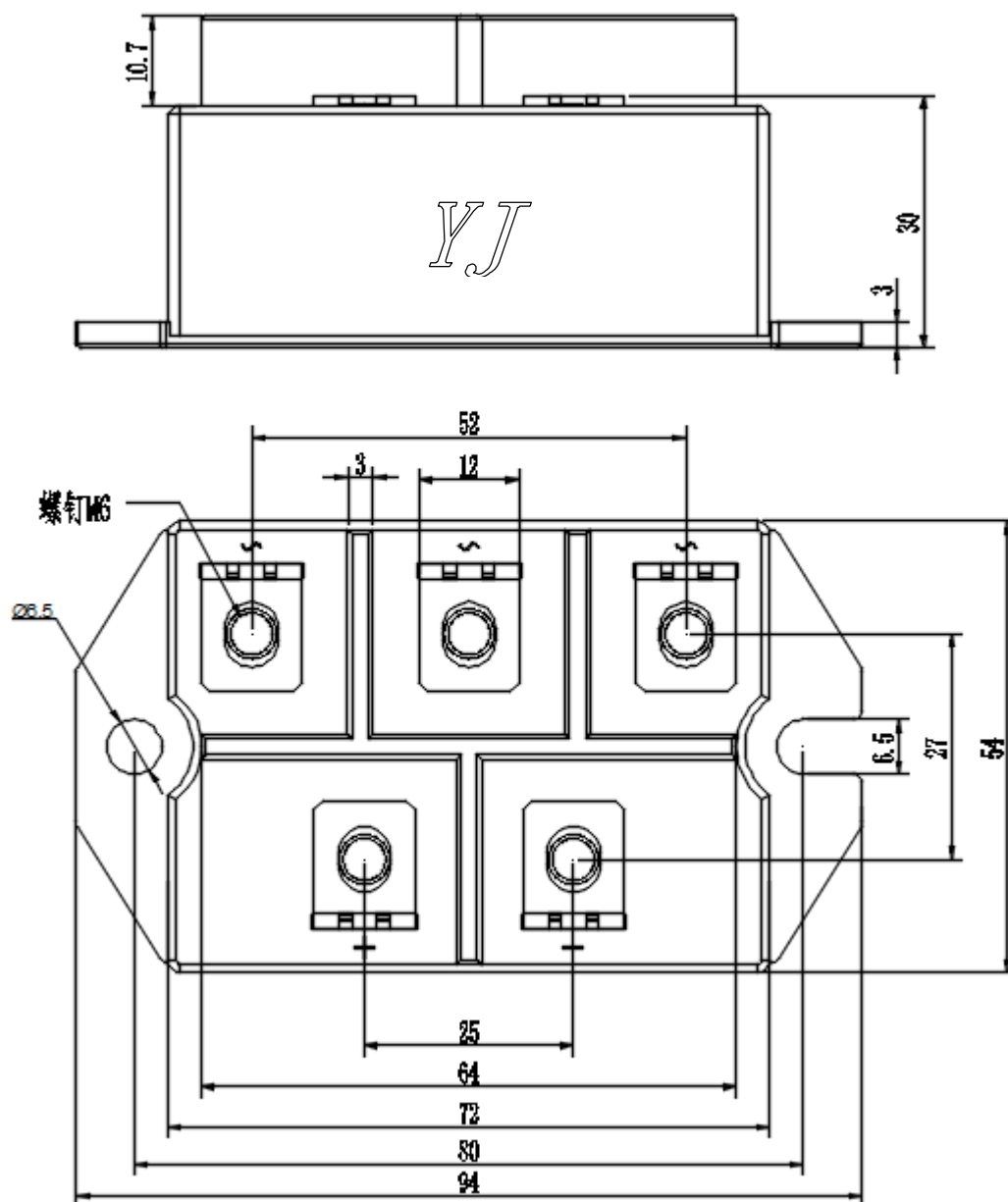
Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
VFM	T=25℃ IF =300A	—	1.45	1.70	V
IRD	Tvj=25℃ VRD=VRRM	—	—	0.5	mA
	Tvj=150℃ VRD=VRRM			6	mA

Performance Curves



Package Outline Information

CASE: NM3



Dimensions in mm