GLASS PASSIVATED THREE PHASE RECTIFIER BRIDGE

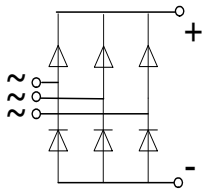
M2D60S18

VOLTAGE RANGE 800 to 1800V
CURRENT 60 Ampere

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

Circuit



Module Type

TYPE	V_{RRM}	V_{RSM}
M2D60S08	800V	900V
M2D60S12	1200V	1300V
M2D60S16	1600V	1700V
M2D60S18	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I_D	Three phase, full wave Tc=110℃	60	A
I_{FSM}	t=10mS Tvj =45℃	460	A
i^2t	t=10mS Tvj =45℃	1050	A^2s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	℃
Tstg		-40 to +125	℃
Mt	To terminals(M5)	5±15%	Nm
Ms	To heatsink(M5)	5±15%	Nm
Weight	Module (Approximately)	130	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	1.45	℃/W
Rth(c-s)	Module	0.07	℃/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V_{FM}	T=25℃ I_F =150A	—	1.45	1.80	V
I_{RD}	T_{vj}=25℃ V_{RD}=V_{RRM} T_{vj}=150℃ V_{RD}=V_{RRM}	—	—	0.3 5	mA mA

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Performance Curves

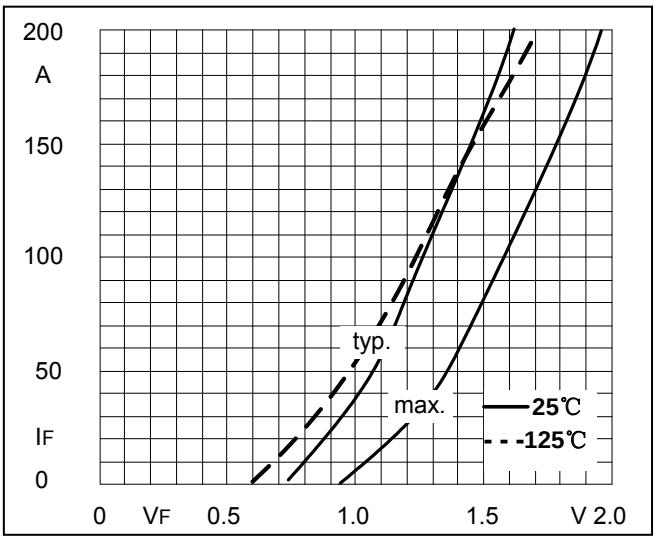

Fig1. Forward Characteristics

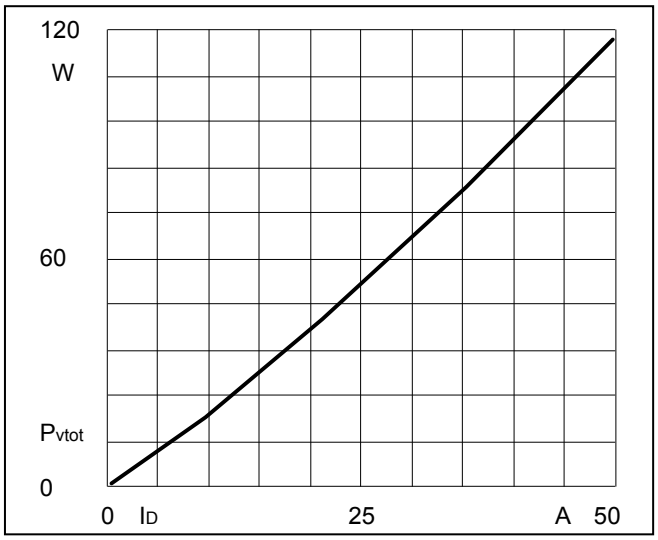

Fig2. Power dissipation

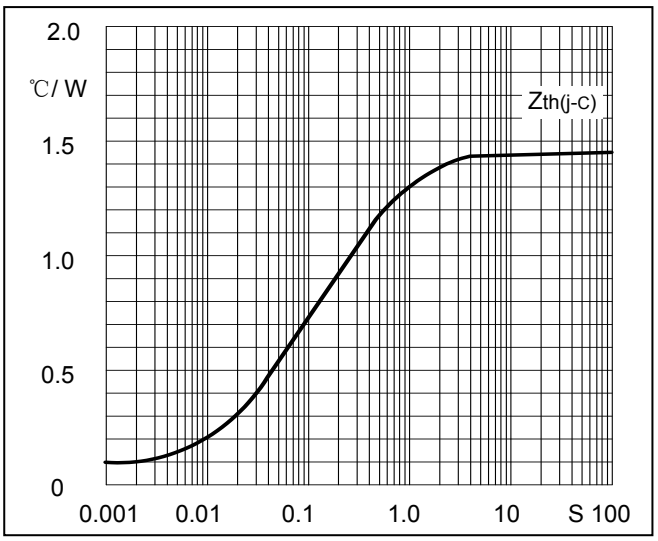

Fig3. Transient thermal impedance

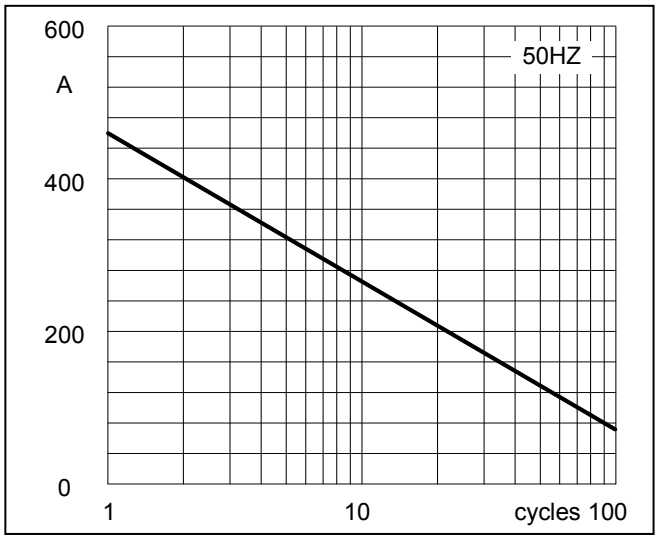

Fig4. Max Non-Repetitive Forward Surge Current

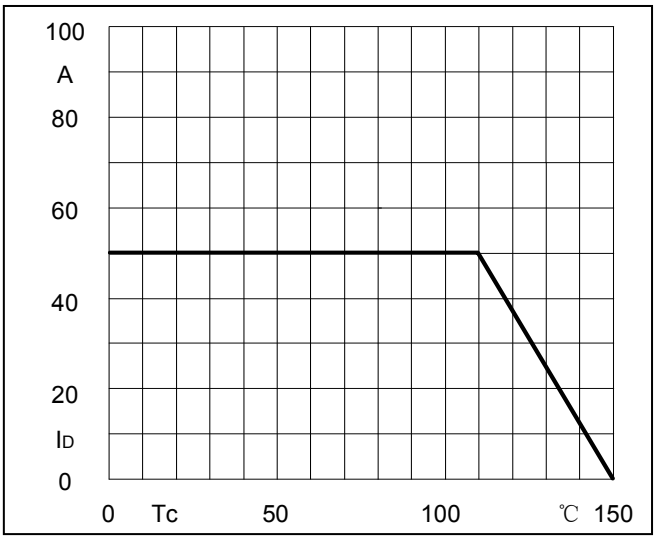

Fig5.Forward Current Derating Curve

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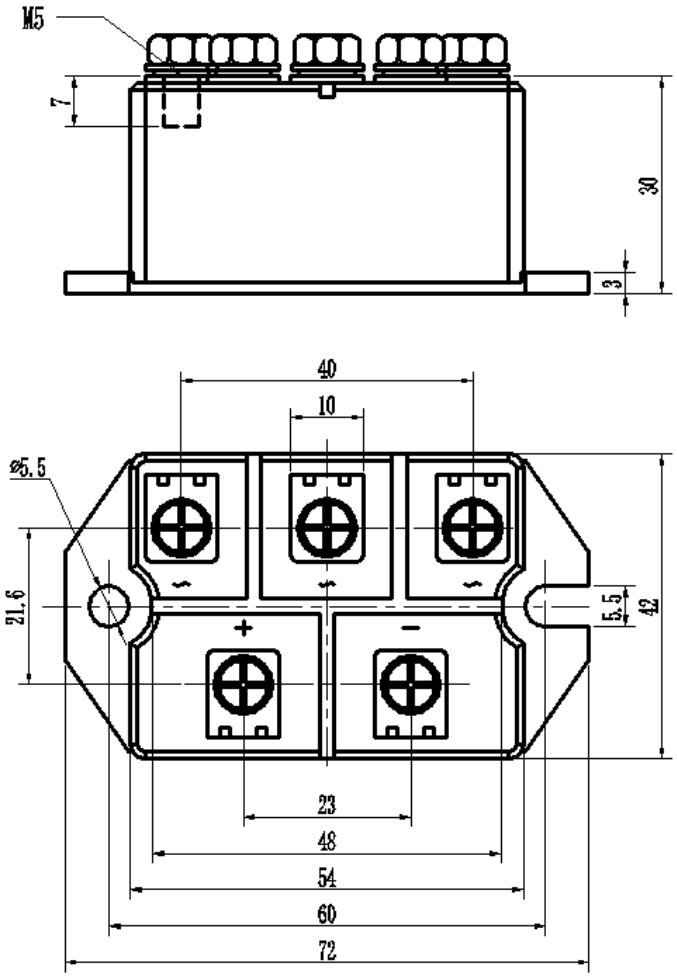
Package Outline Information

CASE：M2



Dimensions in mm