

## Three Phase Rectifier Bridge



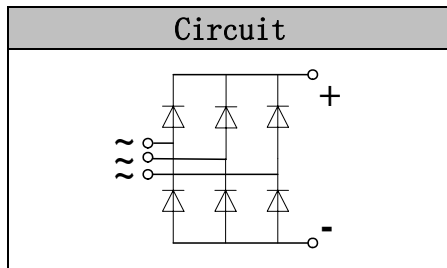
**V<sub>RRM</sub>** 200V  
**ID** 300 A

### 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
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate



### Module Type

TYPE	V <sub>RRM</sub>	V <sub>RSM</sub>
MB300S02M5	200V	220V

### Maximum Ratings

Symbol	Conditions	Values	Units
ID	Three phase, full wave T <sub>c</sub> =100°C	300	A
I <sub>FSM</sub>	t=10mS T <sub>vj</sub> =45°C	950	A
i <sup>2</sup> t	t=10mS T <sub>vj</sub> =45°C	4500	A <sup>2</sup> s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
T <sub>vj</sub>		-40 to +150	°C
T <sub>stg</sub>		-40 to +125	°C
Mt	To terminals(M6)	5±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	194	g

### Thermal Characteristics

Symbol	Conditions	Values	Units
R <sub>th(j-c)</sub>	Per diode	0.5	°C/W

### Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V <sub>F</sub>	T=25°C I <sub>F</sub> =100A	—	0.9	1	V
I <sub>R</sub>	T <sub>vj</sub> =25°C V <sub>R</sub> =V <sub>RRM</sub> T <sub>vj</sub> =125°C V <sub>R</sub> =V <sub>RRM</sub>	—	—	1 30	mA mA

## Performance Curves

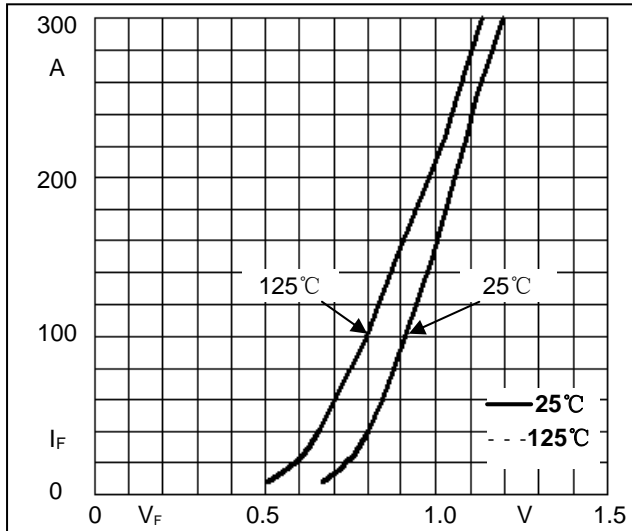


Fig1. Forward Characteristics

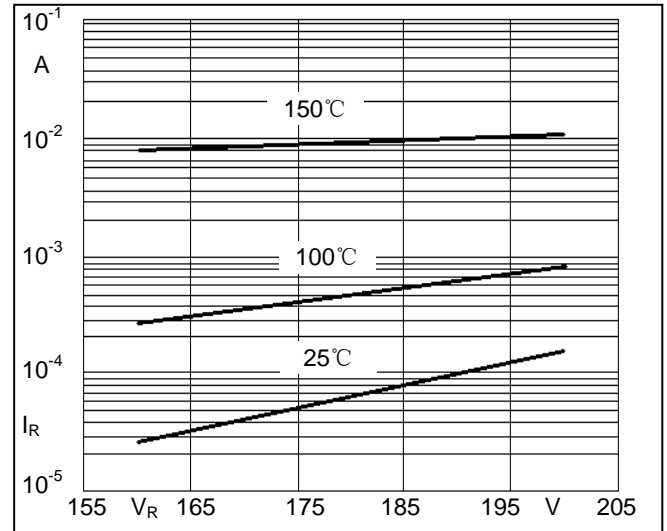
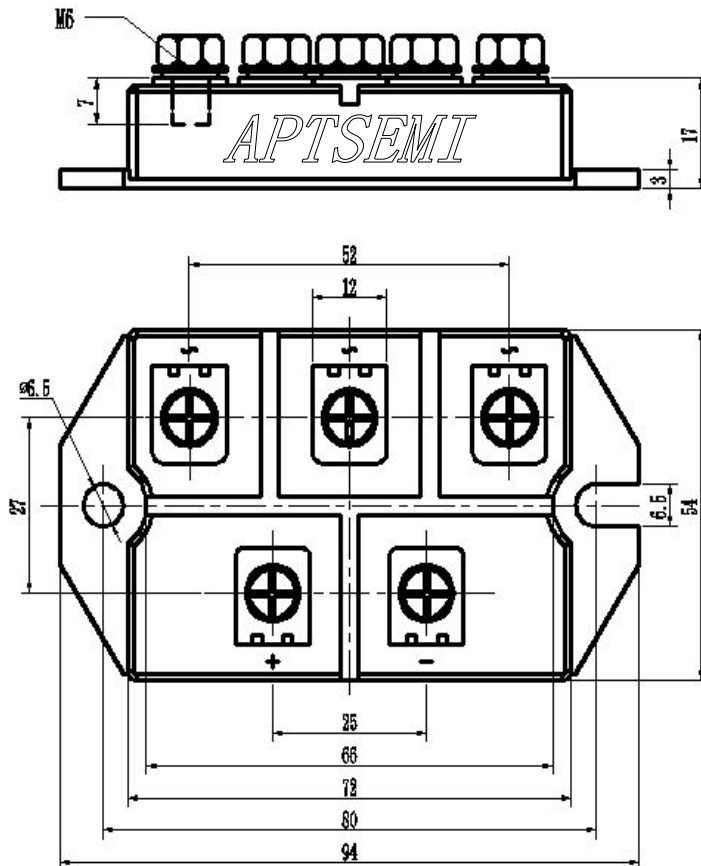


Fig2. Typical Reverse Current

## Package Outline Information

CASE: M5



Dimensions in mm