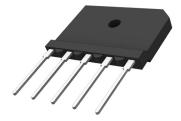
## **Glass Passivated** 3 Phase Bridge Rectifier

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#### Features

- Glass passivated chip, high reliability
- Low forward voltage drop
- Insulation voltage 2500V
- Small size and light weight
- Small thermal resistance, high thermal conductivity, low temperature rise

### Applications

- Power supply of DC equipment
- Input rectifier for PWM converter
- DC motor

#### Maximum Ratings And Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Voltage Ratings							
Characteristics	Symbol	SGBJ2508	SGBJ2510	SGBJ2512	SGBJ2516	Unit	
Peak Repetitive Voltage	Vrrm	800	1000	1200	1600		
Peak Non-Repetitive Reverse Voltage	Vrsm	900	1100	1300	1700	V	
Forward Conduction	•			•			
Characteristics	Symbol	SGBJ25 Series			Unit		
Maximum Average Forward Rectified Current @Tc = 110°C	IF(AV)	25				A	
Peak Forward Surge Current t=8.3ms at 60Hz	IFSM	350					
I <sup>2</sup> t Rating for fusing	l <sup>2</sup> t	508			A <sup>2</sup> S		
Maximum Forward Voltage drop per element at 12.5A Peak	VF	1.1			V		
Reverse peak current VR=VRRM@TJ=25°C VR=VRRM@TJ=125°C	lr	5 3			μA mA		
RMS Isolation Voltage from Case to Lead	Viso	2500			V		
Typical Thermal Resistance (Note1)	Rejc	0.8			°C/W		
Mounting torque M3	Md	0.8			N.m		
Weight	Wt	10			g		
Thermal Characteristics							
Operating Temperature Range	TJ						
Storage Temperature Range	Tstg	-55 to +150			°C		

Notes: 1. Thermal resistance junction to case.

2. The typical data above is for reference only

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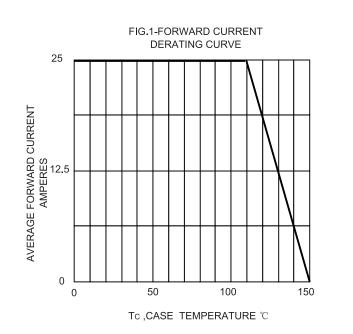


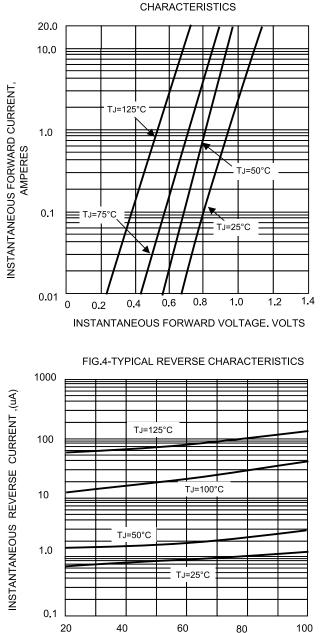
## **Glass Passivated** 3 Phase Bridge Rectifier

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FIG.2-TYPICAL FORWARD

### **Rating and Characteristic Curves**





NUMBER OF CYCLES AT 60Hz

20

50

100

10

FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

SINGLE HALF SINE-WAVE

JEDEC METHOD

PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

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2

5

400

300

200

100

0

1

PEAK FORWARD SURGE CURRENT,

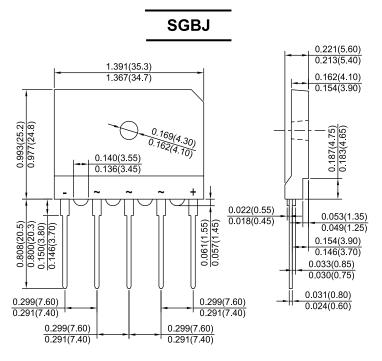
AMPERES



## **Glass Passivated** 3 Phase Bridge Rectifier

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### Dimension:



Dimensions : Inches (Millimetres)

#### **Part Number Table**

Description	Part Number	
Three Phase Bridge Flat Type 25A 800V SGBJ Package	SGBJ2508	
Three Phase Bridge Flat Type 25A 1000V SGBJ Package	SGBJ2510	
Three Phase Bridge Flat Type 25A 1200V SGBJ Package	SGBJ2512	
Three Phase Bridge Flat Type 25A 1600V SGBJ Package	SGBJ2516	

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