Glass Passivated 3 Phase Bridge Rectifier





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	SGBJ3508	SGBJ3510	SGBJ3512	SGBJ3516	Unit
Peak Repetitive Voltage	Vrrm	800	1000	1200	1600	V
Peak Non-Repetitive Reverse Voltage	Vrsm	900	1100	1300	1700	
Forward Conduction						
Characteristics	Symbol	SGBJ35 Series			Unit	
Maximum Average Forward Rectified Current @Tc = 110°C	lf(AV)	35			A	
Peak Forward Surge Current t=8.3ms at 60Hz	IFSM	400				
I2t Rating for fusing	I ² t	660			A ² S	
Maximum Forward Voltage drop per element at 17.5A Peak	VF	1.1			V	
Reverse peak current VR=VRRM@TJ=25°C VR=VRRM@TJ=150°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	-55 to +150			°C	
Storage Temperature Range	Tstg					

Notes: 1. Thermal resistance junction to case.

2. The typical data above is for reference only

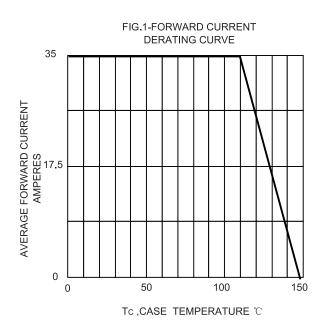
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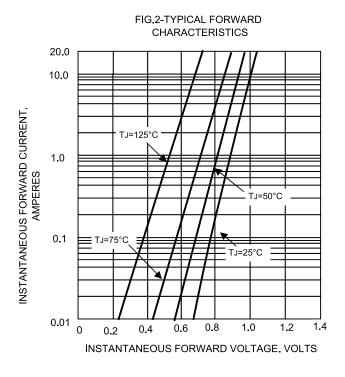


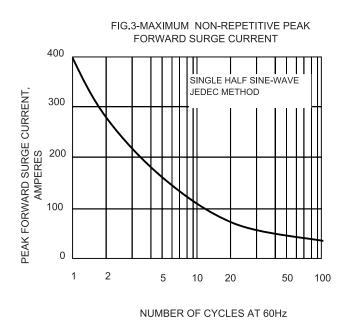
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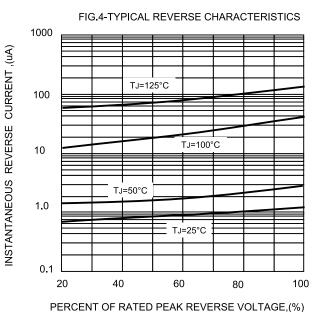


Rating and Characteristic Curves









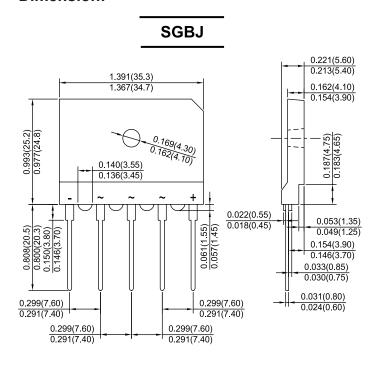
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Dimension:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Three Phase Bridge Flat Type 35A 800V SGBJ Package	SGBJ3508	
Three Phase Bridge Flat Type 35A 1000V SGBJ Package	SGBJ3510	
Three Phase Bridge Flat Type 35A 1200V SGBJ Package	SGBJ3512	
Three Phase Bridge Flat Type 35A 1600V SGBJ Package	SGBJ3516	

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