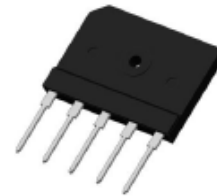


Three Phase Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated chip junction
- High surge current capability
- Low reverse leakage current
- High temperature soldering guaranteed: 270°C±5°C/10 seconds
- RoHS compliant

SGBJ

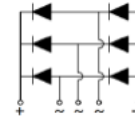


RoHS
COMPLIANT

HALOGEN
FREE
AVAILABLE

MECHANICAL DATA

- Case: SGBJ
- Case material: molding compound meets UL 94V-0 flammability rating
- Polarity: as marked on case



TYPICAL APPLICATION

General purpose use in Household electric appliances, industrial power supply, industrial automation equipment, Electric welding machine, etc.

MAXIMUM RATINGS

T_A=25°C unless otherwise noted

Parameter	Symbol	SGBJ 3508	SGBJ 3510	SGBJ 3512	SGBJ 3514	SGBJ 3516	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	800	1000	1200	1400	1600	V
Average Forward Rectified Current (Wwith heatsink, T _C =85°C)	I _{F(AV)}	35					A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I _{FSM}	450					A
Rating for Fusing (1ms<t<8.3ms, T _J =25°C, Rating of per diode)	I ² t	840					A ² s
Operating Junction Temperature Range	T _J	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

ELECTRICAL CHARACTERISTICS

T_A=25°C unless otherwise noted

Parameter	Test Conditions	Symbol	Value	Unit
Peak Forward Voltage@I _F =17.5A (Pulse measurement, Rate of per diode)		V _F	1.1	V
Reverse Current@V _R =V _{RRM} (Pulse measurement, Rate of per diode)	T _J =25°C	I _R	5	µA
	T _J =125°C		500	
Typical Thermal Resistance	without heatsink	R _{θJA}	18	°C/W
	with heatsink	R _{θJC}	1.5	

Three Phase Glass Passivated Bridge Rectifiers

RATINGS AND CHARACTERISTICS CURVES

FIG.1 Derating Curve For Output Rectified Current

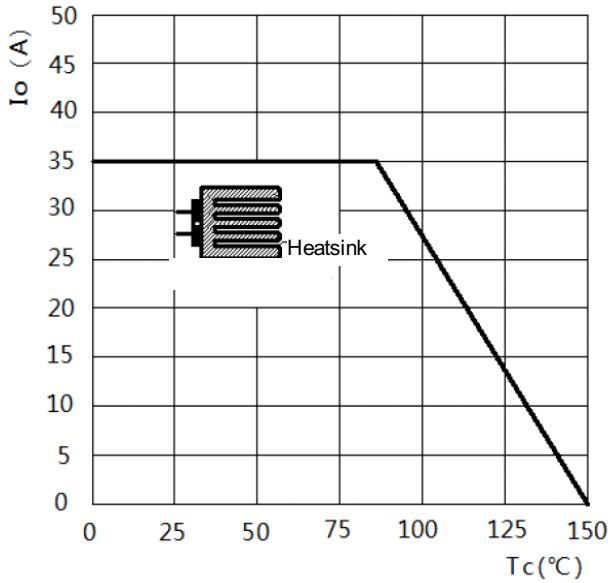


FIG.2 Maximum Non-Repetitive Peak Forward Surge Current

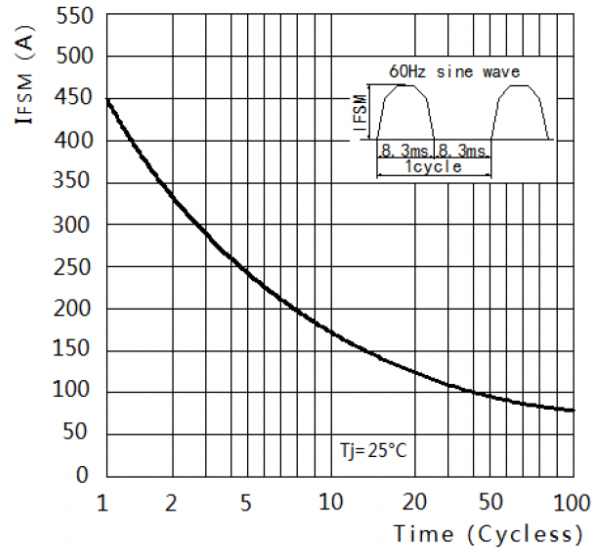


FIG.3 Typical Reverse Characteristics

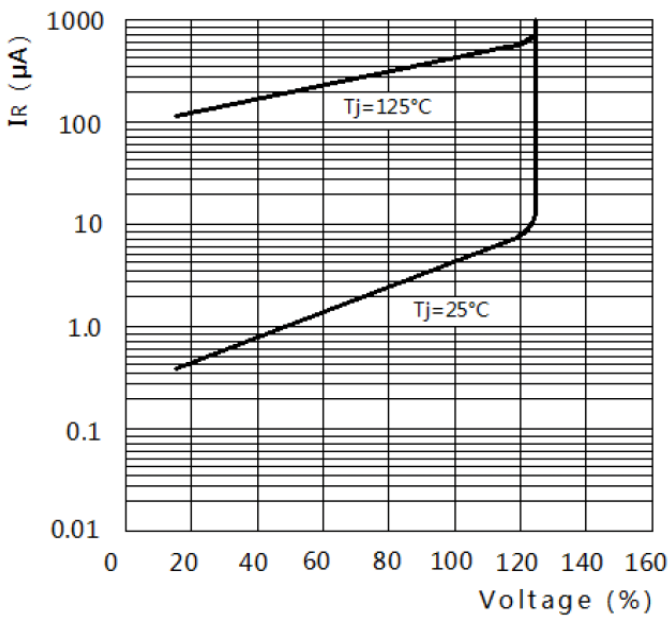
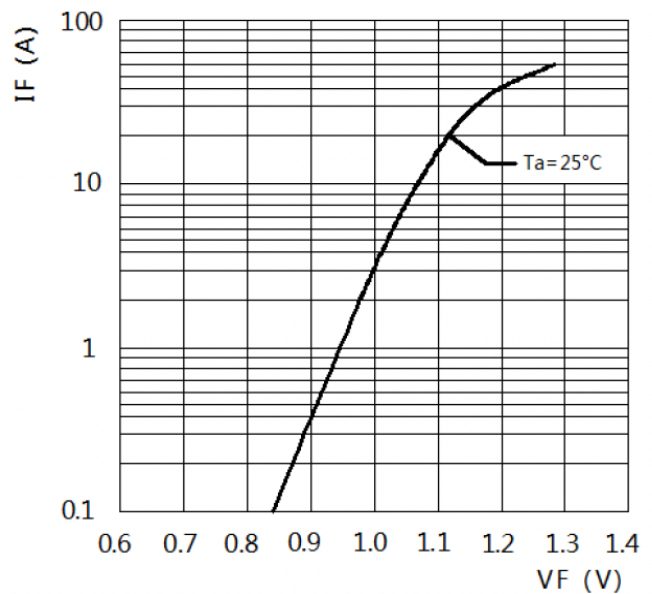
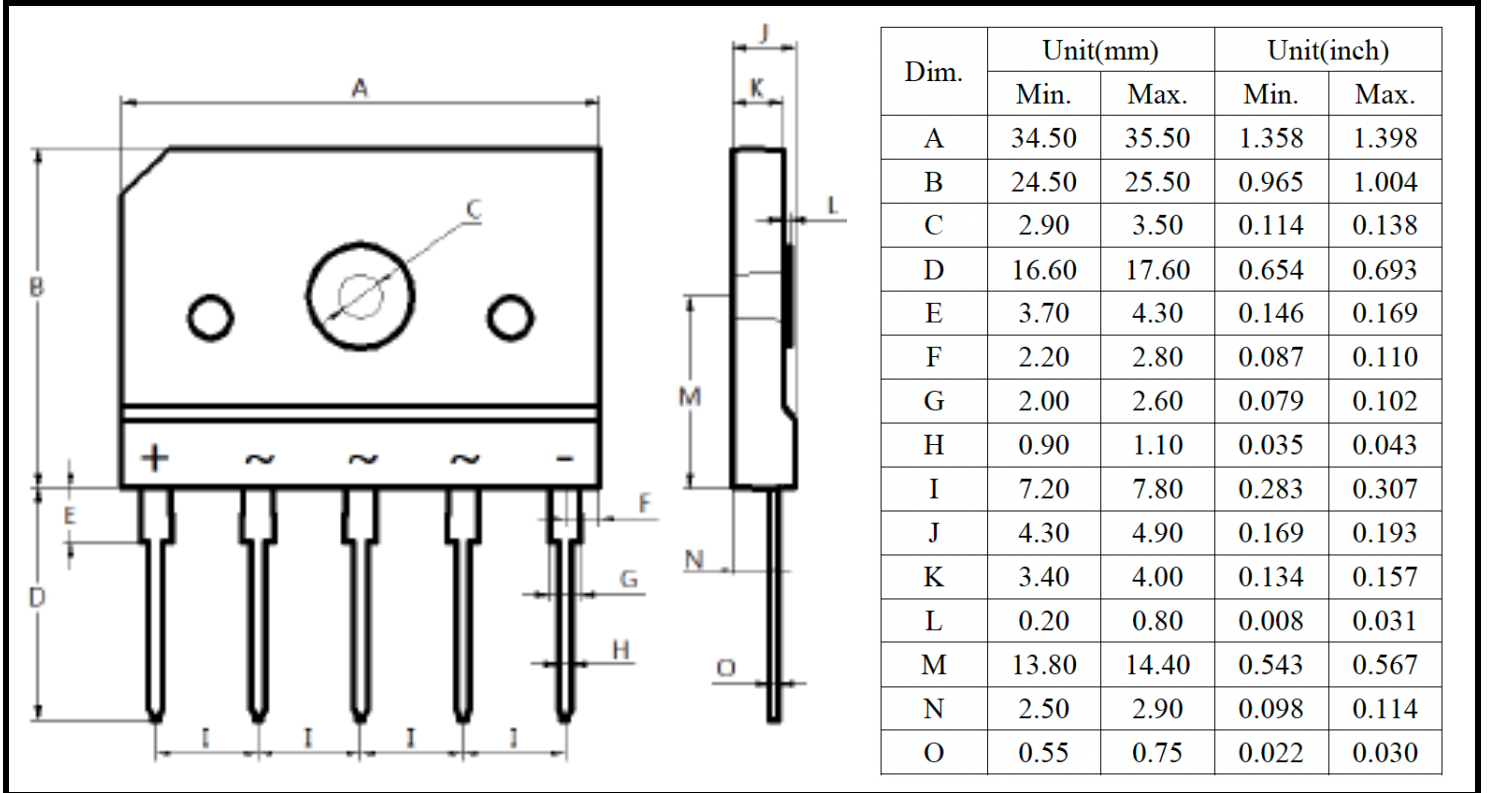


FIG.4 Typical Forward Characteristics



Three Phase Glass Passivated Bridge Rectifiers

PACKAGE OUTLINE DIMENSIONS



PACKING INFORMATION

Package	Inner Box (PCS)	Carton (PCS)
SGBJ	120	1,200