

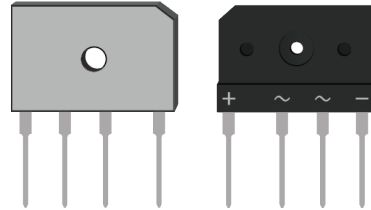
GBJ2560HS THRU GBJ25120HS

25A, 600V to 1200V Standard Single-Phase 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

GBJHS



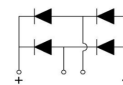
RoHS
COMPLIANT

HALOGEN
FREE
AVAILABLE

MECHANICAL DATA

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

Circuit diagram



TYPICAL APPLICATION

General purpose use in Household electric appliances, industrial power supply, industrial automation equipment.

MAXIMUM RATINGS

T_A=25°C unless otherwise noted

Parameter	Symbol	GBJ 2560HS	GBJ 2580HS	GBJ 25100HS	GBJ 25120HS	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	600	800	1000	1200	V
Average Forward Rectified Current (T _C =100°C)	I _{F(AV)}	25				A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I _{FSM}	350				A
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 =12.5A (Pulse measurement, Rate of per diode)	T _A =25°C	V _F	1.05	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}	22	°C/W
	with heatsink	R _{θJC}	0.71	

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RATINGS AND CHARACTERISTICS CURVES

FIG1. Derating Curve For Output Rectified Current

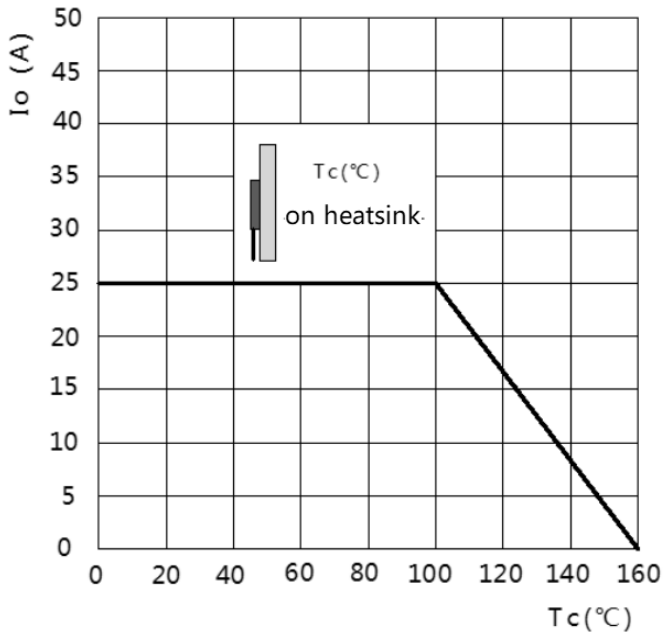


FIG2. Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

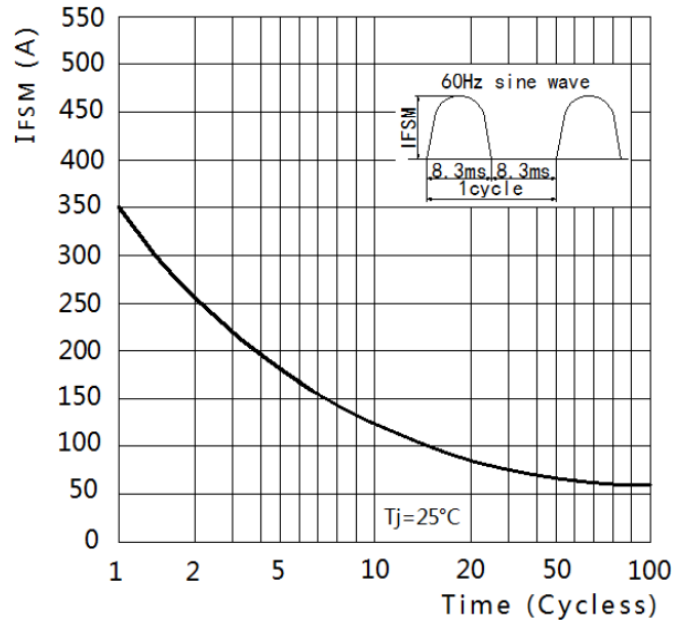


FIG3. Typical Reverse Characteristics Per Bridge Element

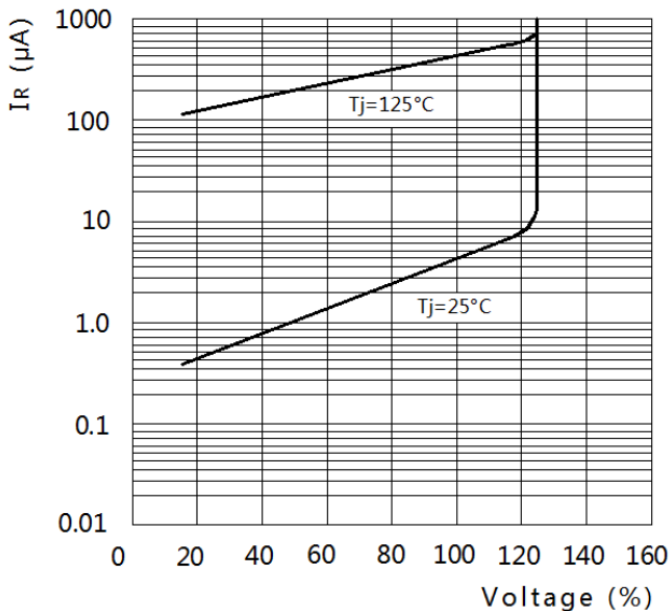
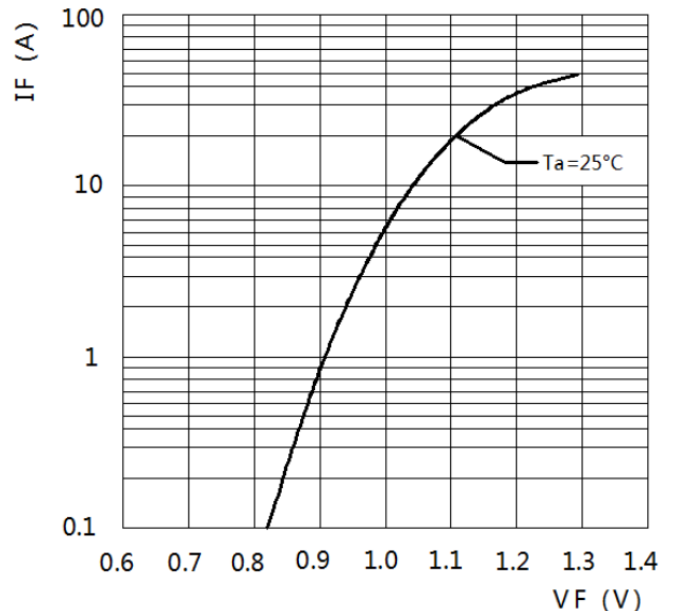


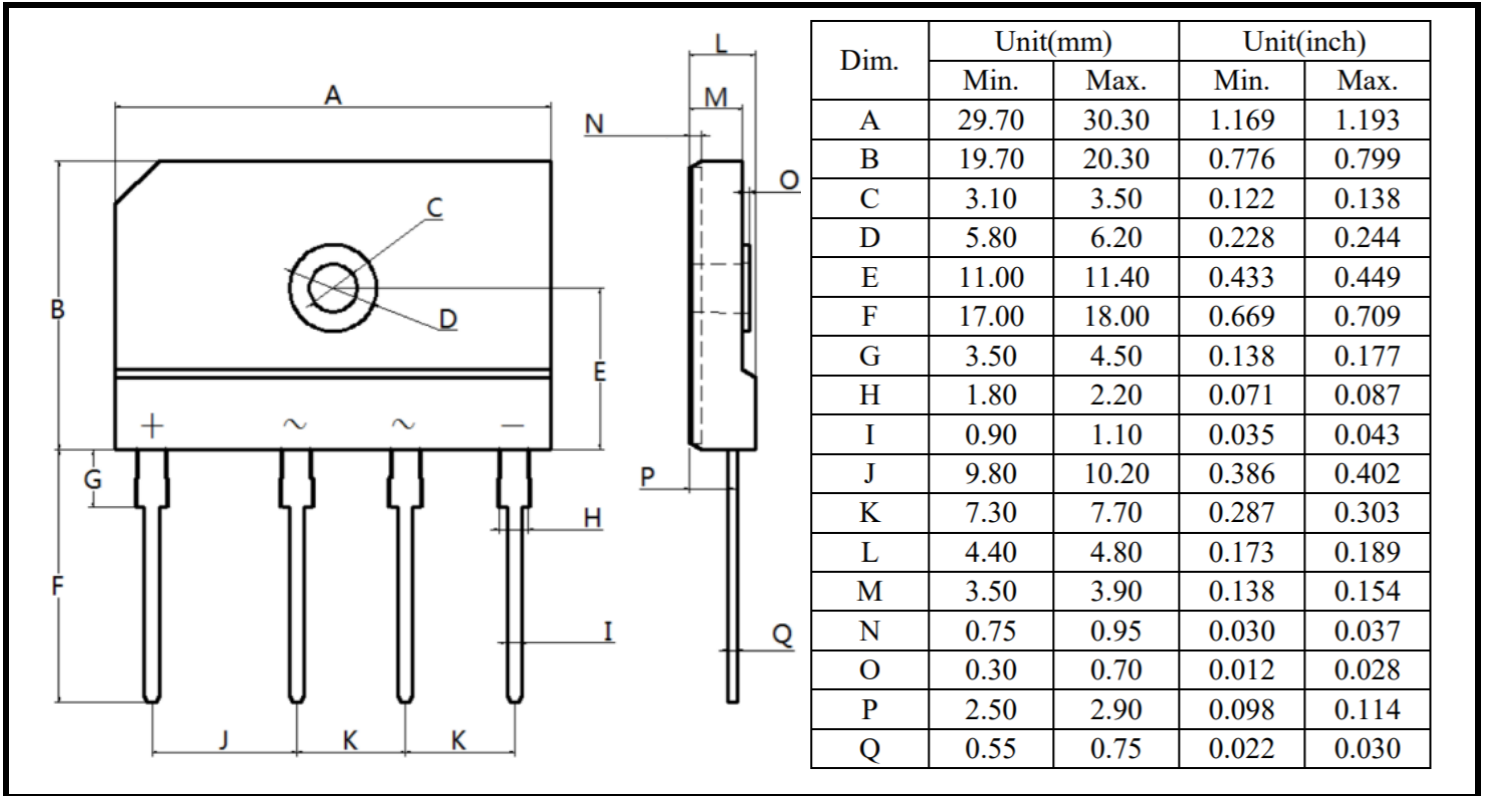
FIG4. Typical Forward Characteristics Per Bridge Element



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PACKAGE OUTLINE DIMENSIONS



PACKING INFORMATION

Package	Inner Box Qty.(PCS)	Carton Qty.(PCS)
GBJHS	250	2,000