

GBU1006HS THRU GBU1010HS

10A, 600V to 1000V

Single 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

MECHANICAL DATA

- Case: GBUHS
- 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

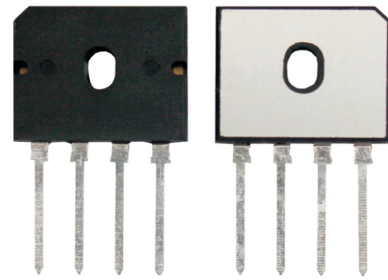
Parameter	Symbol	GBU 1006HS	GBU 1008HS	GBU 1010HS	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	600	800	1000	V
Average Forward Rectified Current (With heatsink, T _C =85°C)	I _{F(AV)}	10			A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I _{FSM}	210			A
Rating for Fusing (1ms<t<8.3ms, T _J =25°C, Rating of per diode)	I ² t	183			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

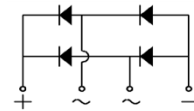
Parameter	Test Conditions	Symbol	Value	Unit
Peak Forward Voltage@I _F =5A (Pulse measurement, Rate of per diode)		V _F	1.05	V
Reverse Current@V _R =V _{RRM} (Pulse measurement, Rate of per diode)	T _J =25°C	I _R	5	µA
	T _J =125°C		500	
Typical Thermal Resistance	without heatsink	R _{θJA}	22	°C/W
	with heatsink	R _{θJC}	0.85	

GBUHS



RoHS
COMPLIANT

HALOGEN
FREE
AVAILABLE



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RATINGS AND CHARACTERISTICS CURVES

FIG.1 Derating Curve For Output Rectified Current

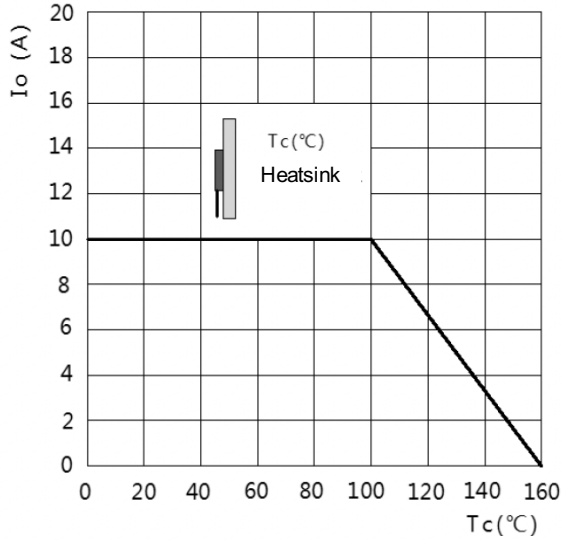


FIG.2 Maximum Non-Repetitive Peak Forward Surge Current

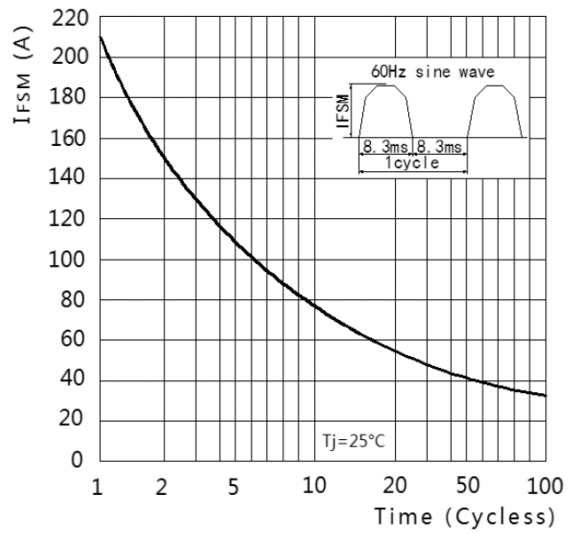


FIG.3 Typical Reverse Characteristics

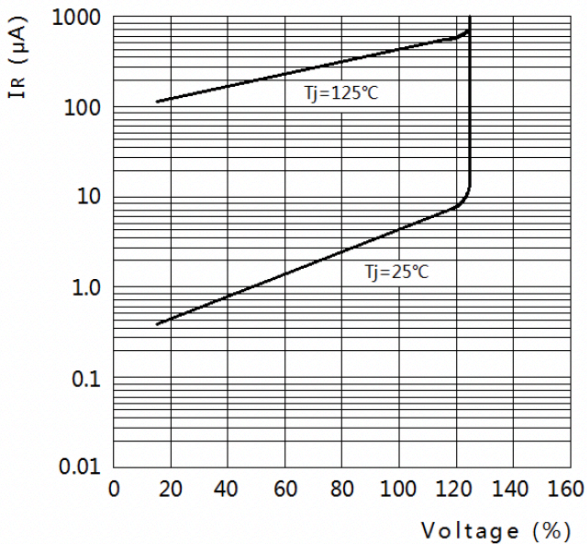
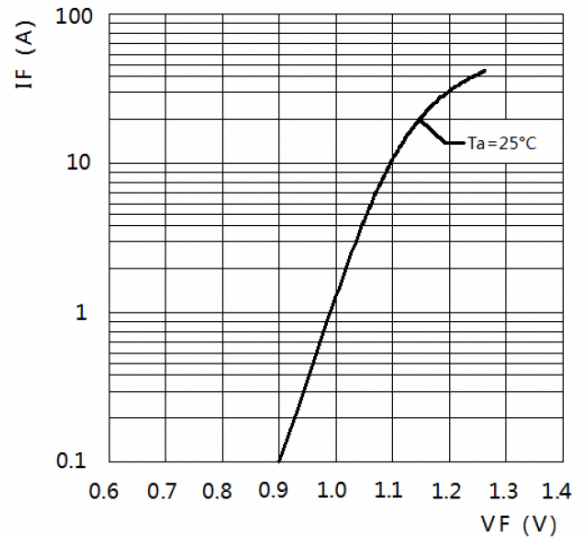


FIG.4 Typical Forward Characteristics

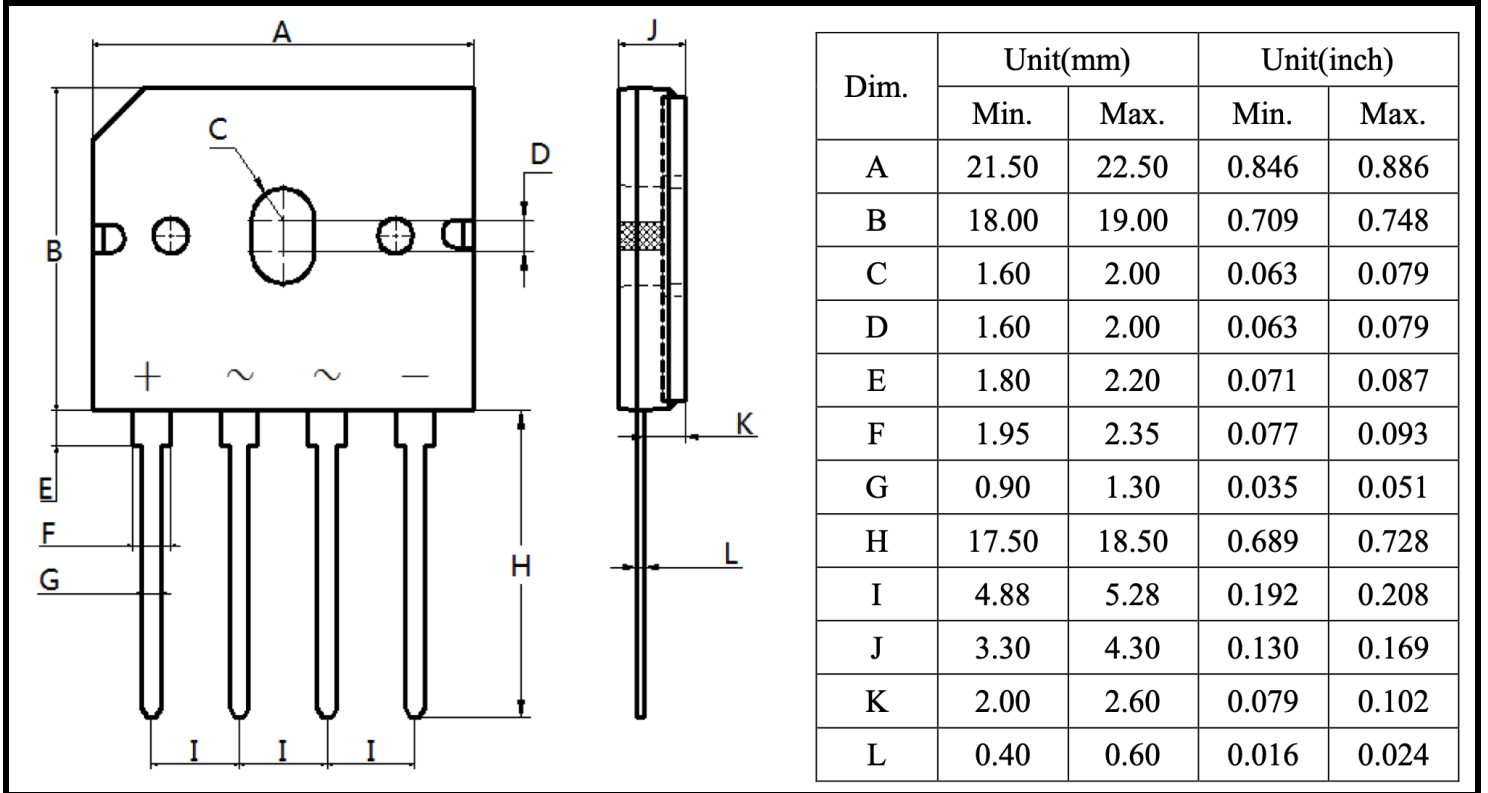


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PACKAGE OUTLINE DIMENSIONS



PACKING INFORMATION

Package	Inner Box (PCS)	Carton (PCS)
GBUHS	250	3,000