

GBU806HS THRU GBU810HS

GBUHS

8A, 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
- Plolarity: as marked on case

ROHS COMPLIANT HALOGEN FREE AVAILABLE

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 806HS	GBU 808HS	GBU 810HS	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Average Forward Rectified Current (With heatsink, T _C =100°C)	I _{F(AV)}	8		А	
Peak Forward Surge Current (10ms single half sine-wave superimposed on rated load)	I _{FSM}	165		А	
Rating for Fusing (1ms <t<8.3ms,tj=25°c,rating diode)<="" of="" per="" td=""><td>l²t</td><td colspan="2">112</td><td>A²s</td></t<8.3ms,tj=25°c,rating>	l ² t	112		A ² s	
Operating Junction Temperature Range	T_J	-55 to +150		${\mathbb C}$	
Storage Temperature Range	T _{STG}	-55 to +150		$^{\circ}$ C	

ELECTRICAL CHARACTERISTICS

T_A=25℃ unless otherwise noted

Parameter	Test Conditions	Symbol	Value	Unit
Peak Forward Voltage@I _F =4A (Pulse measurement,Rate of per diode)		V _F	1.1	V
Reverse Current@V _R =V _{RRM}	T _J =25℃	I	5	
(Pulse measurement,Rate of per diode)	T _J =125℃	I _R	350	μA
Typical Thermal Resistance	without heatsink	$R_{ heta JA}$	20	°C/W
	with heatsink	$R_{\theta JC}$	0.85	



GBU806HS THRU GBU810HS

8A, 600V to 1000V Single Phase Glass Passivated Bridge Rectifiers

RATINGS AND CHARACTERISTICS CURVES

FIG.1 Derating Curve For Output Rectified Current

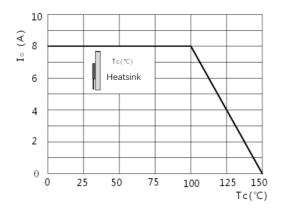


FIG.2 Maximum Non-Repetitive Peak Forward Surge Current

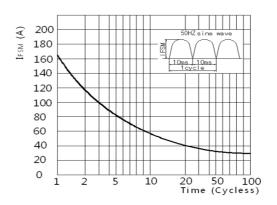


FIG.3 Typical Reverse Characteristics

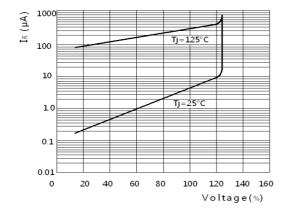
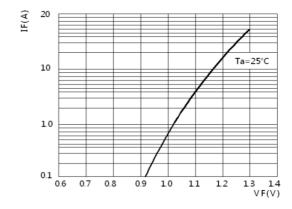


FIG.4 Typical Forward Characteristics

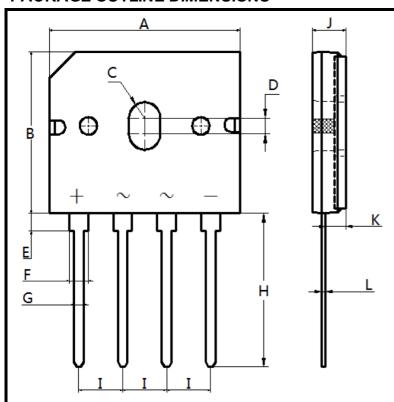




GBU806HS THRU GBU810HS

8A, 600V to 1000V Single Phase Glass Passivated Bridge Rectifiers

PACKAGE OUTLINE DIMENSIONS



Dim.	Unit(mm)		Unit(inch)	
Dim.	Min.	Max.	Min.	Max.
A	21.50	22.50	0.846	0.886
В	18.00	19.00	0.709	0.748
С	1.60	2.00	0.063	0.079
D	1.60	2.00	0.063	0.079
Е	1.80	2.20	0.071	0.087
F	1.95	2.35	0.077	0.093
G	0.90	1.30	0.035	0.051
Н	17.50	18.50	0.689	0.728
I	4.88	5.28	0.192	0.208
J	3.30	4.30	0.130	0.169
K	2.00	2.60	0.079	0.102
L	0.40	0.60	0.016	0.024

PACKING INFORMATION

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

DS332-Ver.3.0 www.ansas-semi.com Mar.20th 2020