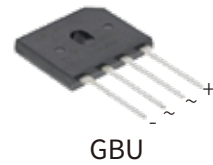


FEATURES

- | Ideal For Printed Circuit Board Mounting
- | Built-in Printed Circuit Board Stand-offs
- | The Plastic Material Used Carries Underwriters Laboratory Flammability Recognition 94V-0
- | High Case Dielectric Strength



MECHANICAL DATA

- | Case: Reliable Low Cost Construction Utilizing Molded Plastic Technique
- | Mounting Position: Any

APPROVALS

RoHS Compliance with 2011/65/EU

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C)

Parameter		Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Unit
Marking			GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current At Tc=100°C(With Heatsink)		I _{F(AV)}	4.0							A
Peak Forward Surge Current Single Sine-wave Superimposed On Rated Load (Jedec Method)		I _{FSM}	135							A
Rating For Fusing (T<8.3ms)		I²t	76							A²sec
Maximum Instantaneous Forward Voltage Drop Per Leg at 4.0A		V _F	1.0							V
Maximum DC Reverse Current At Rated DC Blocking Voltage Per Diode	T _A =25°C	I _R	10							μA
	T _A =125°C		500							μA
Typical Thermal Resistance		R _{θJC}	4.1							°C/W
Operating Junction And Storage Temperature Rang		T _J , T _{STG}	-55 ~ +150							°C

Notes1. Device mounted on 75mm*75mm*1.6mm Al plate heatsink.

CHARACTERISTIC CURVES

Fig. 1-Derating Curve for Output Rectified Current

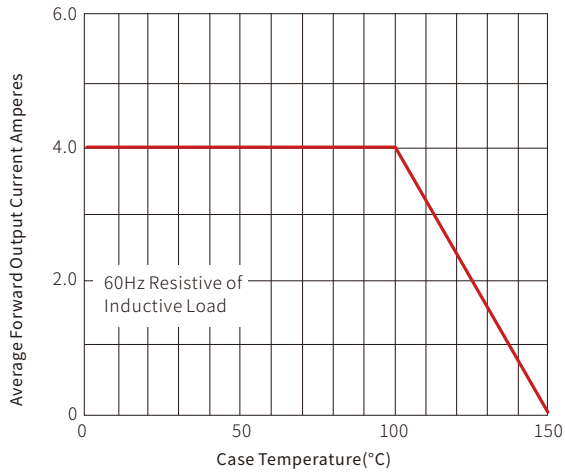


Fig. 2-Maximum Non-repetitive Peak Forward Surge Current

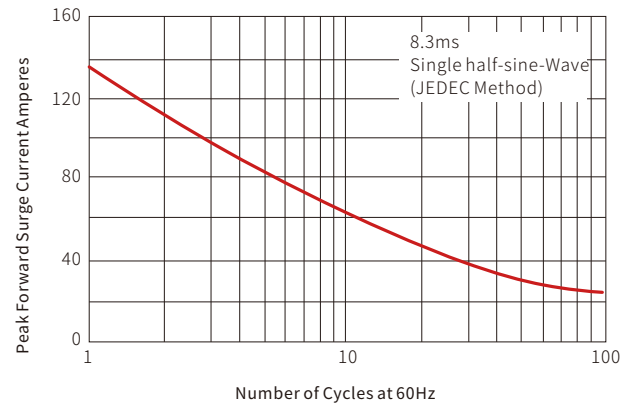


Fig. 3-Typical Instantaneous Forward Characteristics

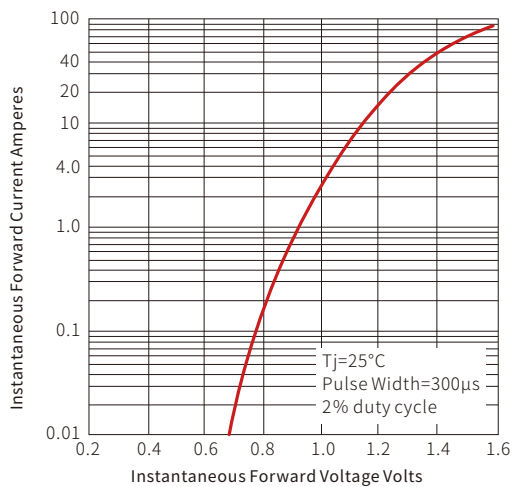


Fig. 4-Typical Reverse Characteristics

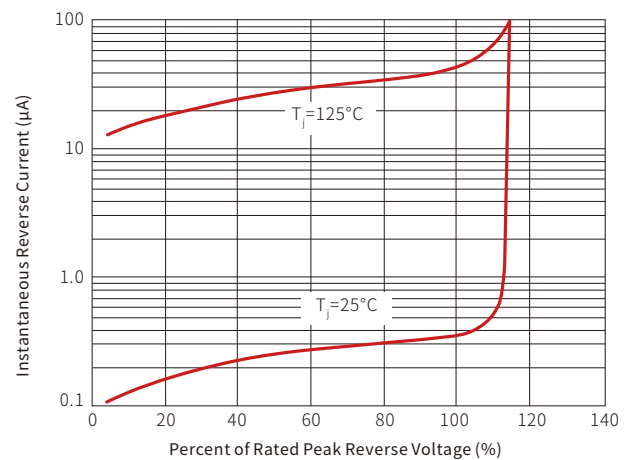
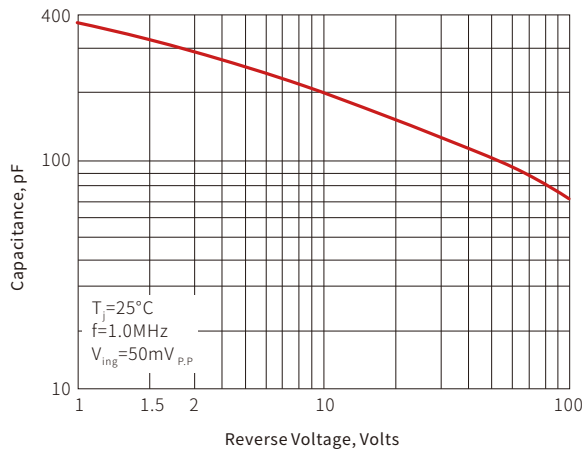
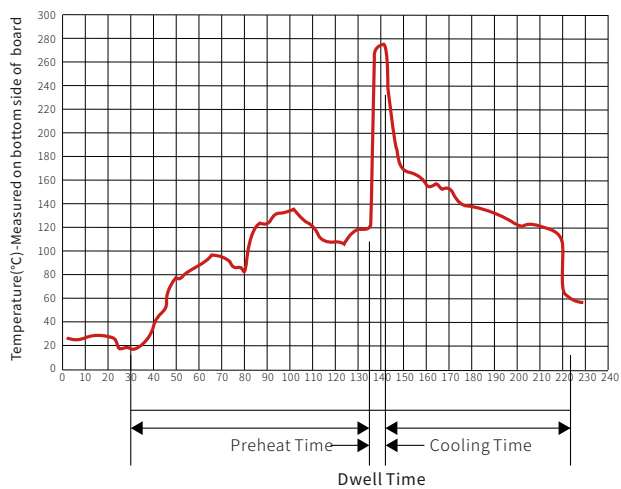


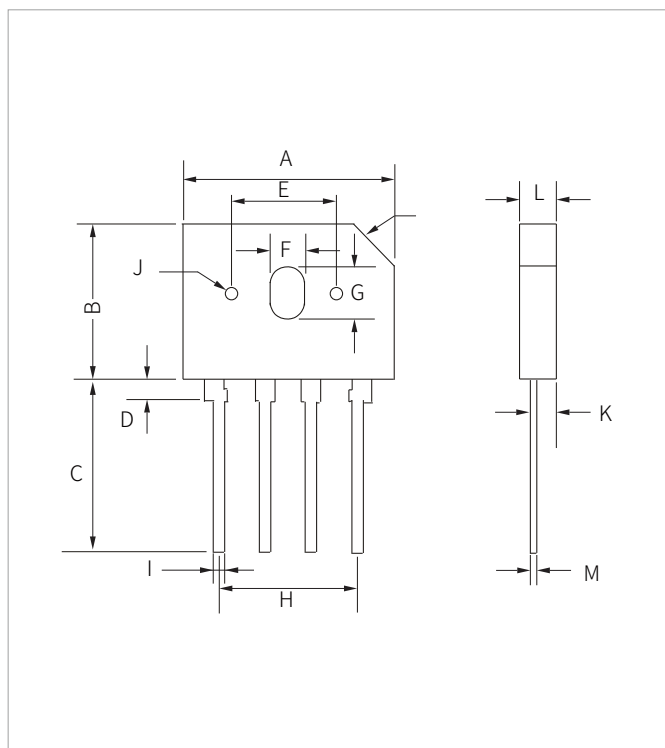
Fig. 5-Typical Junction Capacitance


WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

GBU PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	21.8	22.2	0.858	0.874
B	18.4	18.8	0.724	0.740
C	17.1	17.5	0.673	0.689
D	1.80	2.40	0.071	0.094
E	14.80	15.20	0.583	0.598
F	3.60	4.00	0.142	0.157
G	5.60	6.00	0.220	0.236
H	15.04	15.44	0.592	0.608
I	0.90	1.30	0.035	0.051
J	Φ1.30	Φ1.70	Φ0.051	Φ0.067
L	3.30	3.60	0.130	0.142
K	2.40	2.60	0.094	0.102
M	0.35	0.55	0.014	0.022

ORDERING INFORMATION

Part Number	Component Package	Per Box	Description
GBU4005-GBU410	GBU	250PCS	Box

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By QR Code

Website



Wechat

To find your local partner within Semiware's global website: www.semiware.com

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