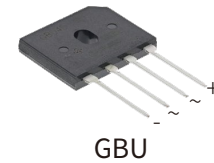


FEATURES

- 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 25005	GBU 2501	GBU 2502	GBU 2504	GBU 2506	GBU 2508	GBU 2510	Unit
Marking			GBU 25005	GBU 2501	GBU 2502	GBU 2504	GBU 2506	GBU 2508	GBU 2510	
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)}	25.0							A
Peak Forward Surge Current Single Sine-wave Superimposed On Rated Load (Jedec Method)		I _{FSM}	350							A
Rating For Fusing (T<8.3ms)		I²t	508							A²sec
Maximum Instantaneous Forward Voltage Drop Per Leg at 12.5A		V _F	1.1							V
Maximum DC Reverse Current at rated DC Blocking Voltage Per Element	T _A =25°C	I _R	10							μA
	T _A =125°C		500							μA
Operating Junction and Storage Temperature Range		T _J , T _{STG}	-55 ~ +150							°C

Notes: (1) Thermal resistance from Junction to Ambient on P.C. board mounting

CHARACTERISTIC CURVES

Fig. 1-Derating Curve for Output Rectified Current

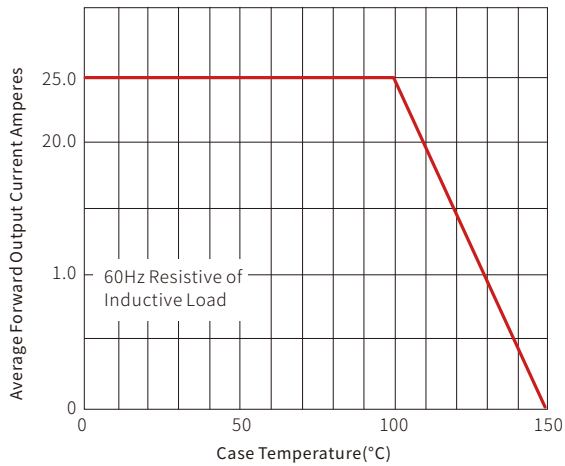


Fig. 2-Maximum Non-Repetitive Peak Forward Surge Current

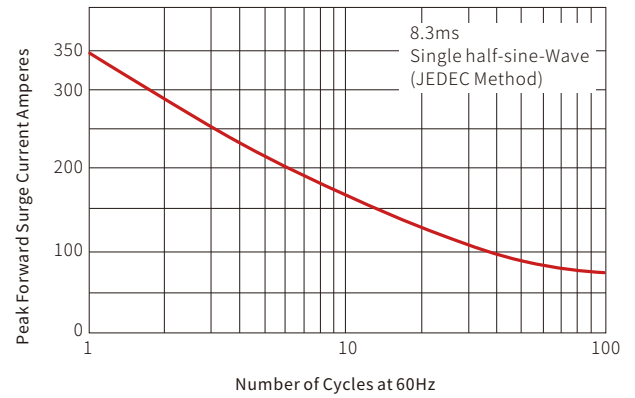


Fig. 3-Typical Instantaneous Forward Characteristics

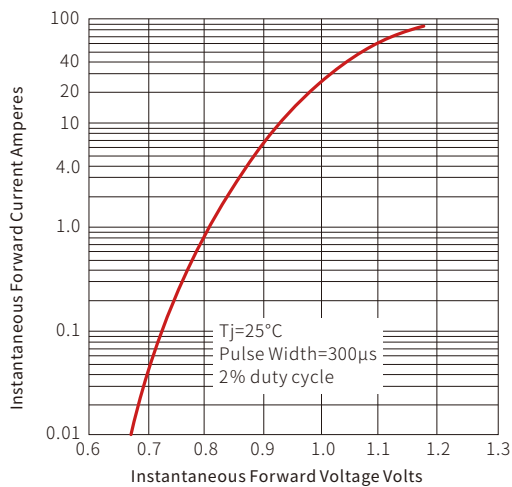


Fig. 4-Typical Reverse Characteristics

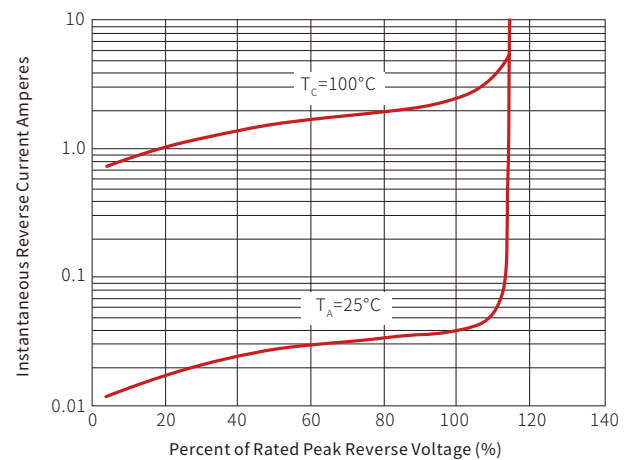
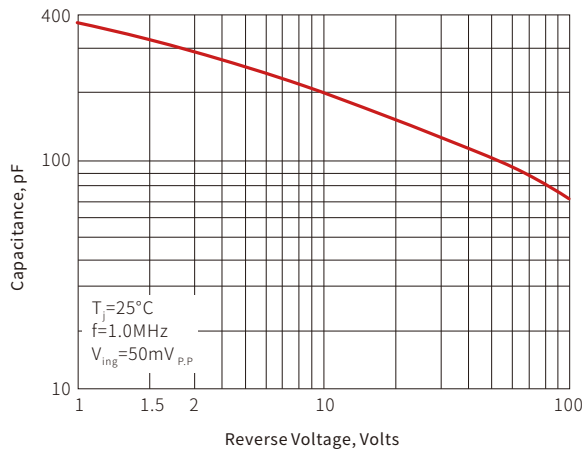
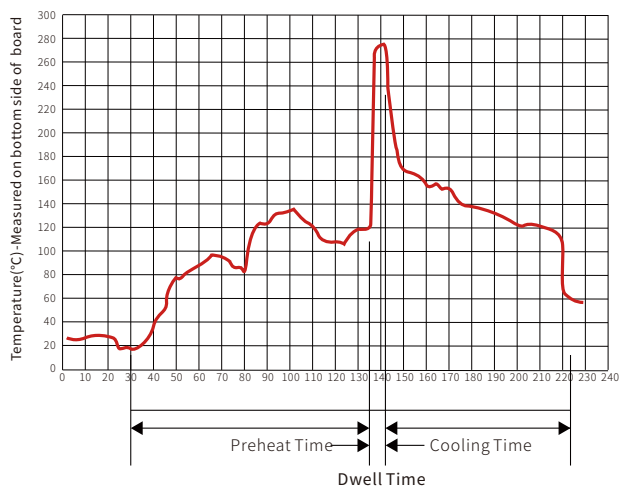


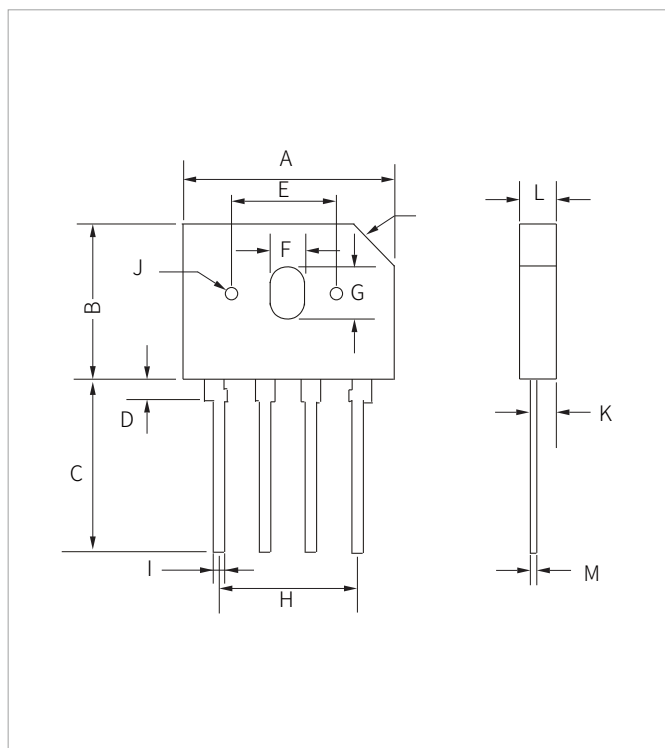
Fig. 5-Typical Junction Capacitance


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
GBU25005-GBU2510	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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