

PRIMARY CHARACTERISTICS

V_{RRM}	50V~1000V
I_O	25A
V_F	1.0V
$T_{J,Max}$	150°C

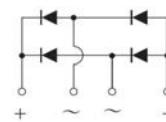
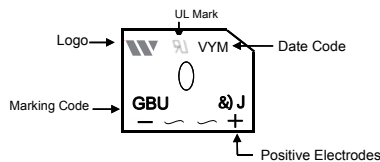
FEATURES

- Glass passivated chip junction
- Ideal for printed circuit board
- Reliable low cost construction
- High surge current capability
- Moisture Sensitivity Level 1

GBU PACKAGE

Marking Code : Part No.

Ex : GBUJ



V:Product Line Code

Y:Last digital of year, Ex : 4 -2014,5-2015...

M:Month Code, Ex : 1-1,2-2,...10-O,11-N,12-D

MECHANICAL DATA

- Case : Molded plastic,GBU
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	GBU25A	GBU25B	GBU25D	GBU25G	GBU25J	GBU25K	GBU25M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current with Heatsink at $T_C=100^\circ\text{C}$	$I_{(AV)}$	25.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	350							Amp
Maximum Forward Voltage Drop per Element at 12.5A DC and 25°C	V_F	1.0							Volts
Maximum Reverse Current at $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=125^\circ\text{C}$	I_R	5.0 500							uAmp
Typical Junction Capacitance (Note 1)	C_J	70							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2							°C/W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150							°C

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance fromn Junction to Case with Device Mounted on 100mm x 100mm x 1.6mmCu Plate Heatsink.



Fig. 1 - Forward Current Derating Curve

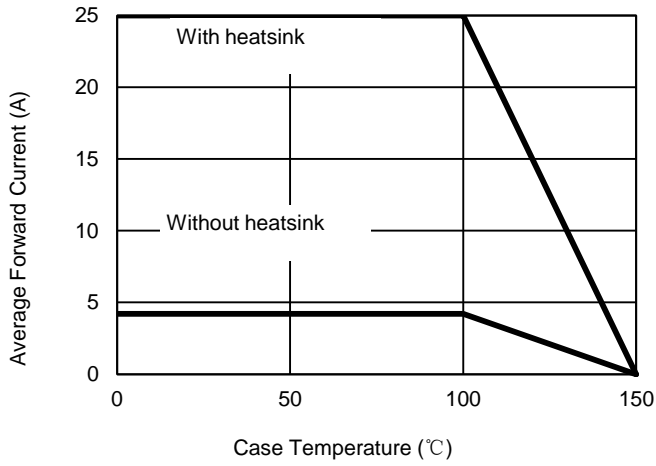


Fig. 2 - Maximum Non-Repetitive Surge Current

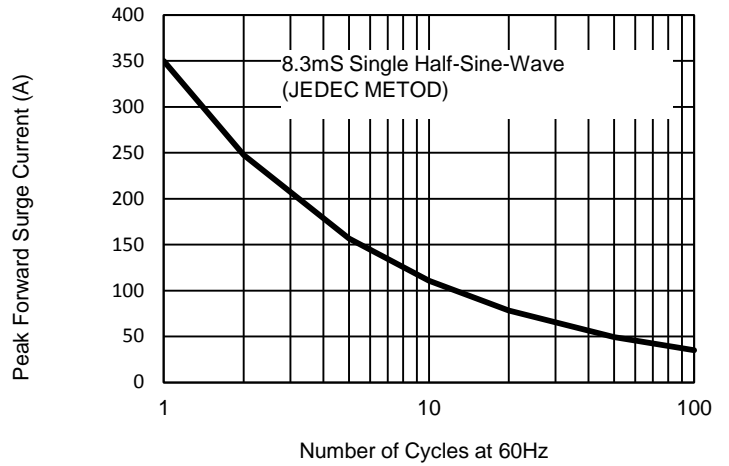


Fig. 3 - Typical Reverse Characteristics

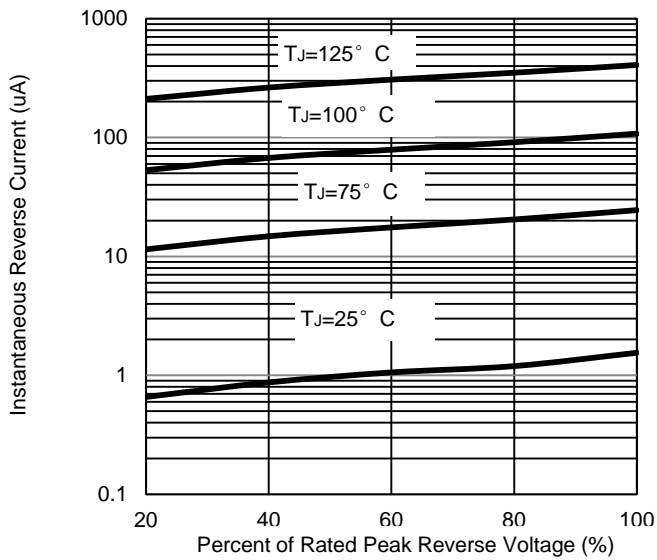
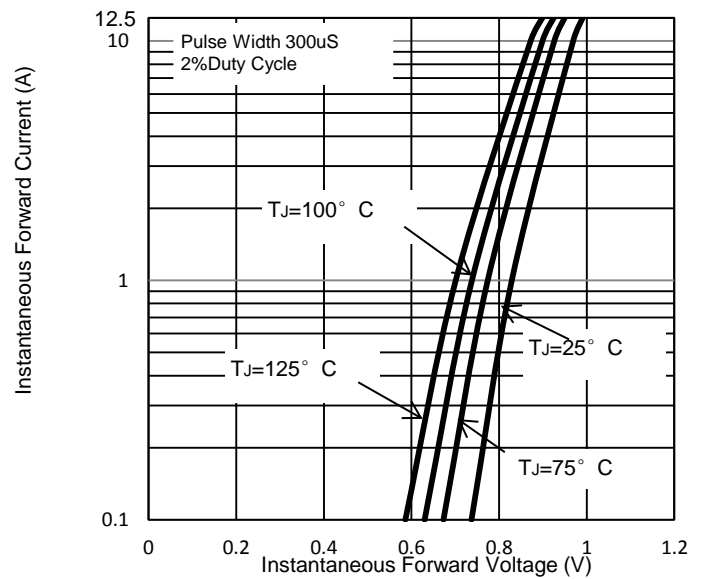


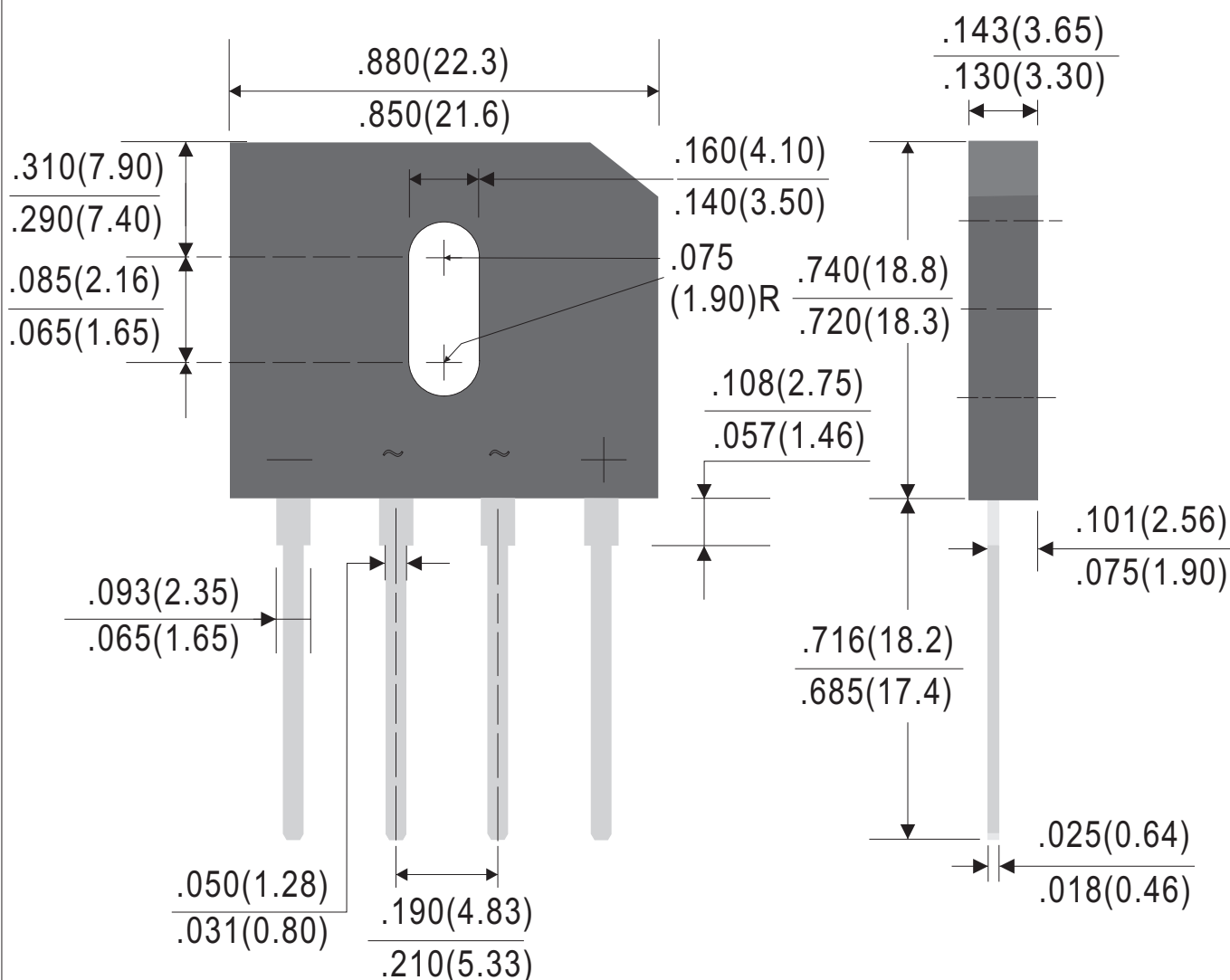
Fig. 4 - Typical Forward Characteristics





Outline Drawing

GBU



Dimensions in inches and (millimeters)

Rev.G

Ordering Information:

Device PN	Packing
Part Number ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	Tube Packing:20pcs/Tube; 1000pcs/Box

Note: (1) Packing code : Empty is Tube Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

(3) WS : Willas brand abbreviation, Label Type does not display

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