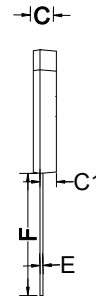
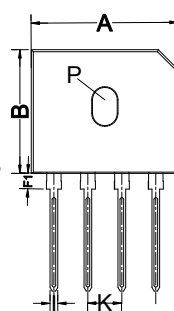


FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-O
- Mounting position: Any
- Glass passivated chip junctions



GBU		
Dim	Min	Max
A	21.60	22.40
B	18.20	19.80
C	3.20	3.80
C1	1.80	2.80
E	0.40	0.60
F	17.00min	
F1	1.70	2.40
I	0.95	1.25
K	4.70	5.30
P	R1.9typical	
All Dimensions in mm.		

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010	UNITS
Maximum recurrent 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 Output current @T _C =100°C	$I_{F(AV)}$	10.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	220							A
I ² t Rating for fusing @T _J =25°C	I ² t	200							A ² S

Thermal Characteristics

Characteristic	Symbol	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010	UNITS
Typical junction capacitance per leg (note 3)	C _J	211				94			p F
Typical thermal resistance per leg (note 2)	R _{θJA}	22							°C/W
(note 1)	R _{θJC}	2.0							
Operating junction temperature range	T _J	- 55 ---- + 150							°C
Storage temperature range	T _{STG}	- 55 ---- + 150							°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010	UNITS
Maximum instantaneous forward voltage @5.0A @10A	V _F	1.0 1.1							V
Maximum reverse current @T _A =25 °C at rated DC blocking voltage @T _A =125°C	I _R	5.0 500							μA

NOTE: 1. Unit case mounted on 3.2x3.2x0.12" thick (6.2x8.2x0.3cm) Al. Plate

2. Units mounted in free air, no heat sink on P.C.B., 0.5x0.5"(12x12mm) copper pads, 0.375"(9.5mm) lead length.

3. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

CHARACTERISTICS CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

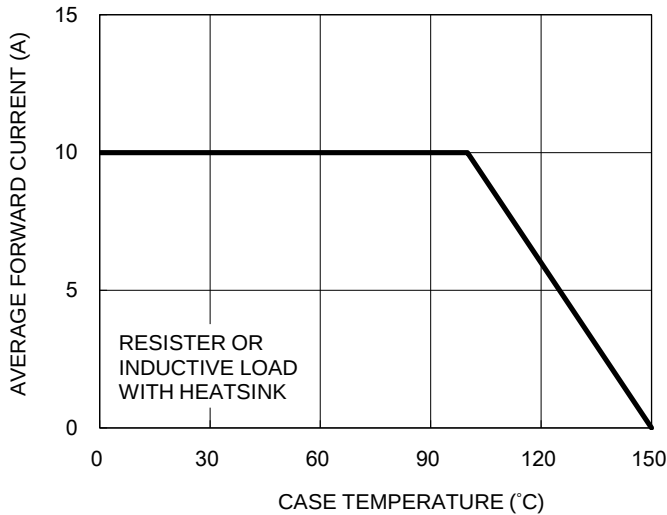


Fig.2 Typical Junction Capacitance

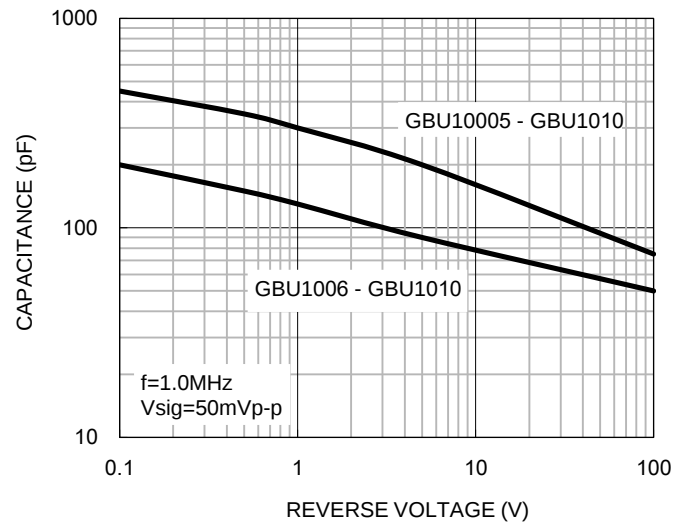


Fig.3 Typical Reverse Characteristics

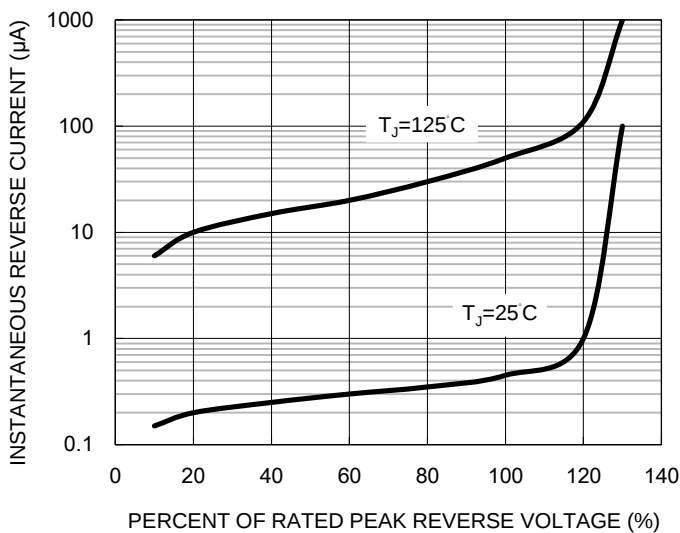
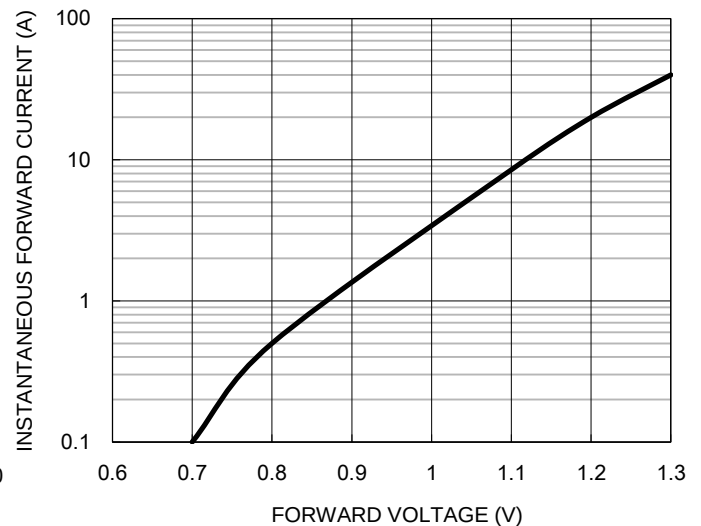


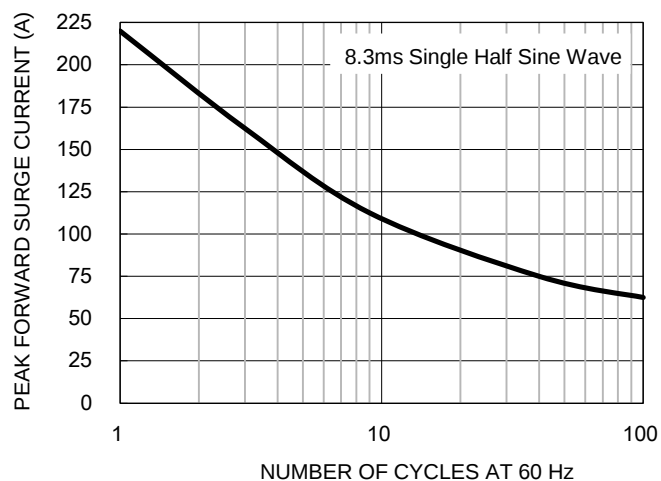
Fig.4 Typical Forward Characteristics



CHARACTERISTICS CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.5 Maximum Non-repetitive Forward Surge Current



Device	Package	Shipping
GBU10005-GBU1010	GBU	500 Units/Box