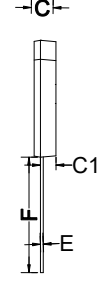
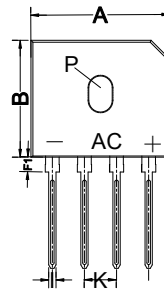


FEATURES

- 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	18.80
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	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	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 @TC=100°C (note1)	$I_{F(AV)}$	4.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	150.0							A
I ² t Rating for fusing @Tj=25°C	I^2t	93							A ² S

Thermal Characteristics

Characteristic	Symbol	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	UNITS
Typical junction capacitance perelement (note 3)	C _J	100				45			p F
Typical thermal resistance (note2) (note1)	R _{θJA} R _{θJC}	22.0 4.0							°C/W
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	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	UNITS
Maximum instantaneous forward voltage @2.0A @4.0A	V_F	1.0 1.1							V
Maximum reverse current @TA=25 °C at rated DC blocking voltage @TA=125°C	I_R	5.0 50							μ A

NOTE: 1. Unit case mounted on 1.6x1.6x0.06" thick (4.0x4.0x0.15cm) Al. Plate.

2. Units mounted on P.C.B. with 0.5x0.5" (12x12mm) copper pads and 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

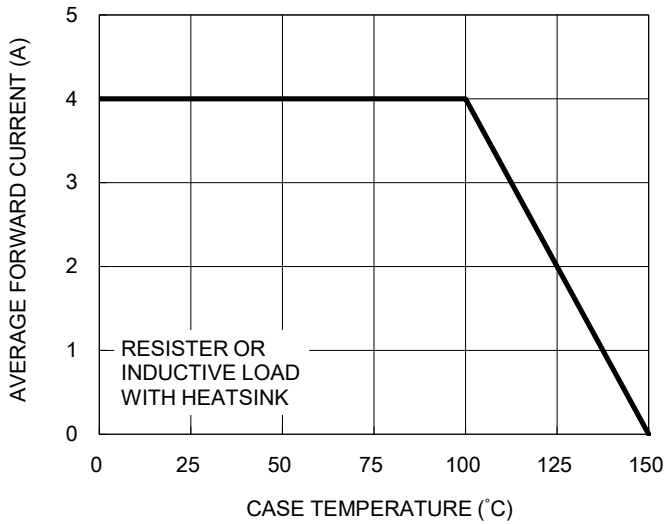


Fig.2 Typical Junction Capacitance

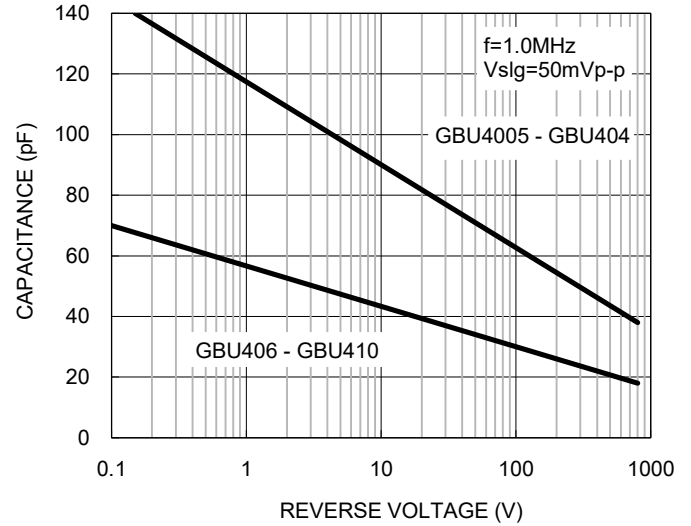


Fig.3 Typical Reverse Characteristics

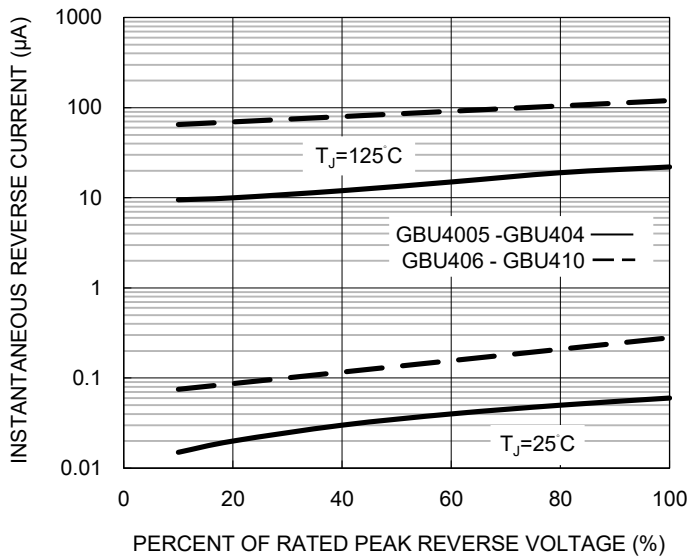


Fig.4 Typical Forward Characteristics

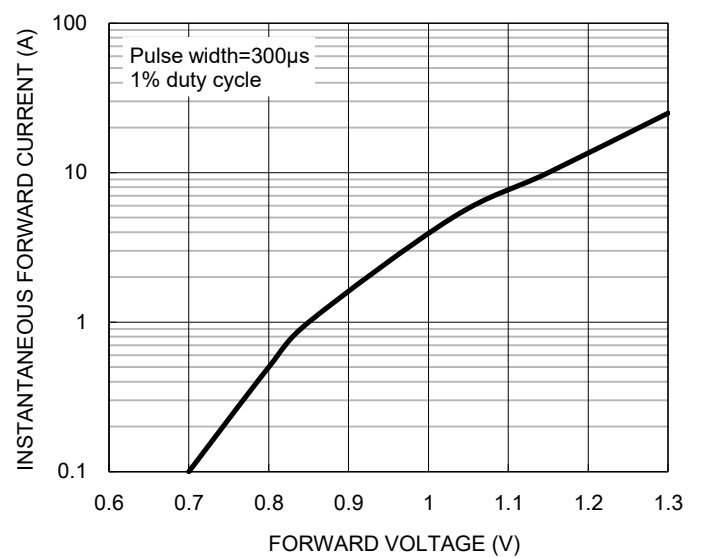
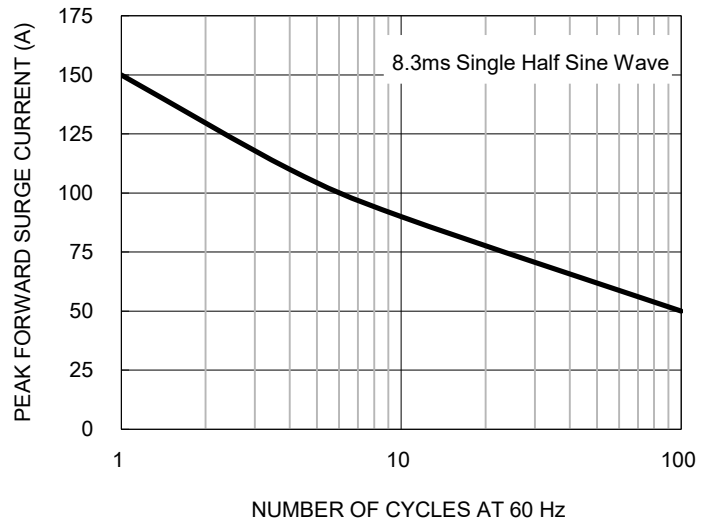


Fig.5 Maximum Non-repetitive Forward Surge Current



Device	Package	Shipping
GBU4005--GBU410	GBU	500 Units/Box