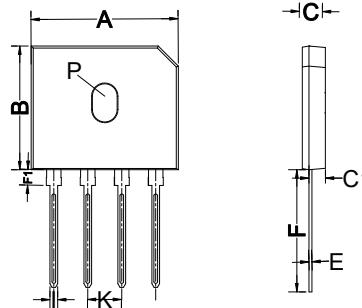


FEATURES

- 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	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	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 T _c =100°C Output current	I _{F(AV)}	6.0						A	
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	175.0						A	
I ² t Rating for fusing @T _j =25°C	I ² t	127						A ² S	

Thermal Characteristics

Characteristic	Symbol	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	UNITS
Typical junction capacitance per element(note 3)	C _J	211				94			
Typical thermal resistance (note2) (note21)	R _{θJA} R _{θJC}	2.2 2.5						°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	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	UNITS
Maximum instantaneous forward voltage @3.0A @6.0A	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 2.6x1.4x0.06" thick (6.5x3.5x0.15cm) Al. Plate.

2. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screws

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

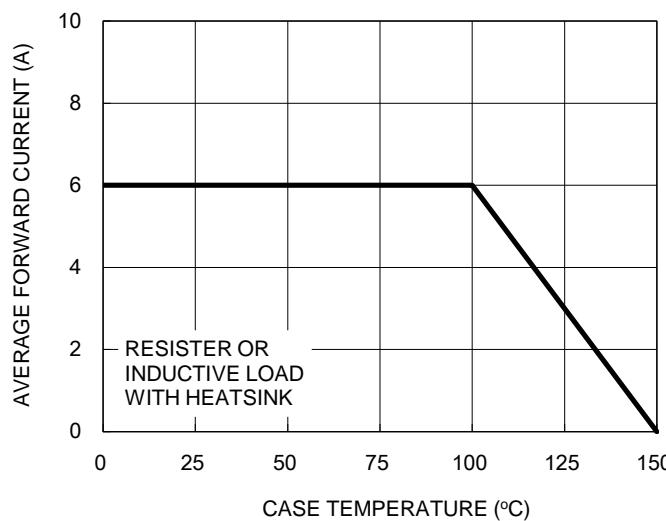


Fig.2 Typical Junction Capacitance

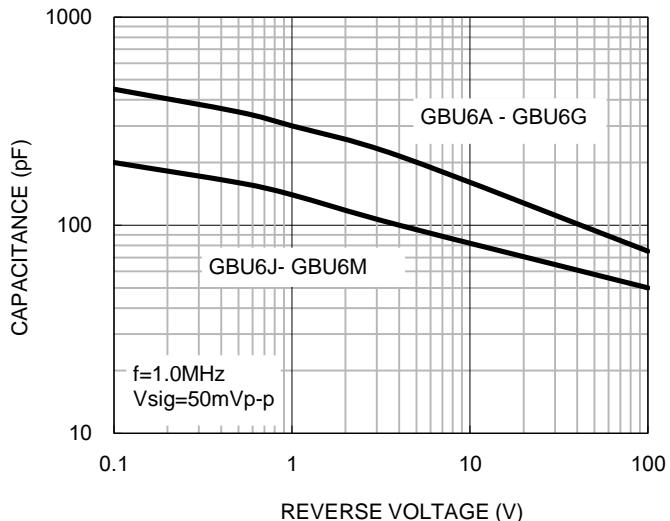


Fig.3 Typical Reverse Characteristics

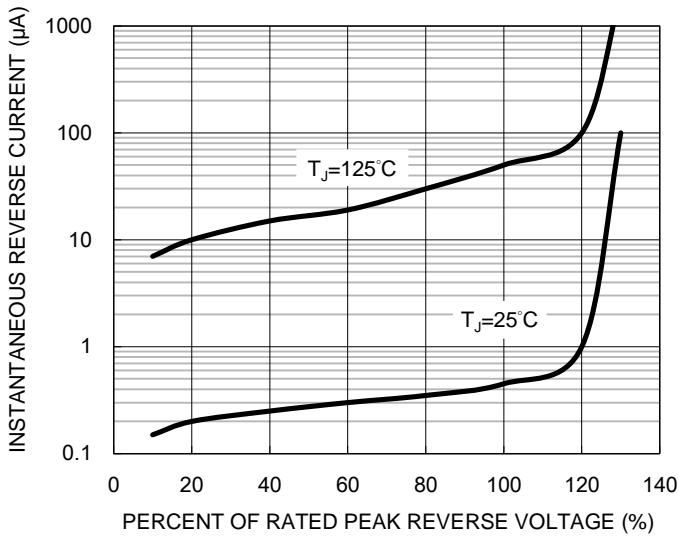
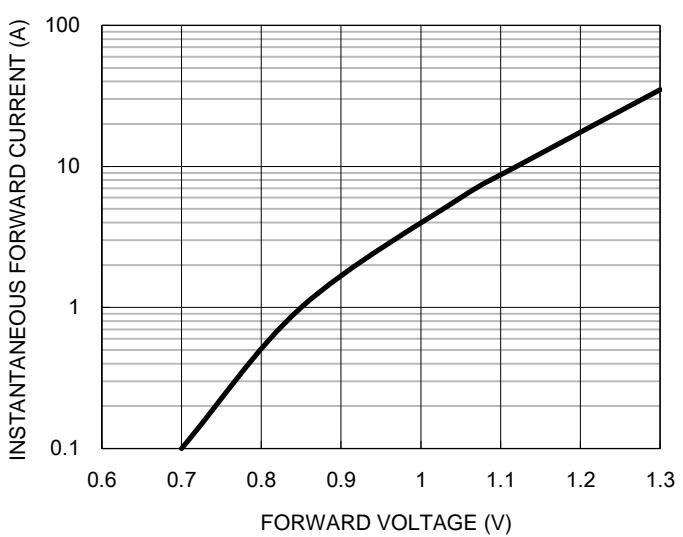


Fig.4 Typical Forward Characteristics



CHARACTERISTICS CURVES

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

Fig.5 Maximum Non-repetitive Forward Surge Current

