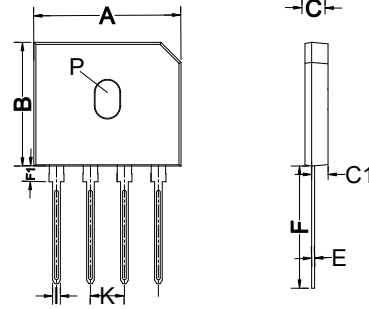




GBU		
Dim	Min	Max
A	21.60	22.40
B	18.20	19.80
C	3.20	3.80
C1	1.80	2.80
E	0.40	0.60
F	17.00min	
F1	1.70	2.40
I	0.95	1.25
K	4.70	5.30
P	R1.9typical	
All Dimensions in mm.		

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

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

Characteristic	Symbol	GBU25A	GBU25B	GBU25D	GBU25G	GBU25J	GBU25K	GBU25M	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	$I_{F(AV)}$	25							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	300							A
I ² t Rating for fusing @T _J =25°C	I ² t	373							A ² S

Thermal Characteristics

Characteristic	Symbol	GBU25A	GBU25B	GBU25D	GBU25G	GBU25J	GBU25K	GBU25M	UNITS
Typical junction capacitance per leg (note 3)	C _J	211				94			p F
Typical thermal resistance per leg (note 2) (note 1)	R _{θJA}	2.2							°C/W
	R _{θJC}	7.0							
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	GBU25A	GBU25B	GBU25D	GBU25G	GBU25J	GBU25K	GBU25M	UNITS
Maximum instantaneous forward voltage @12.5A	V _F	1.1							V
Maximum reverse current @T _A =25 °C at rated DC blocking voltage @T _A =125°C	I _R	5.0 500							μ A

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.



FIG.1 – DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

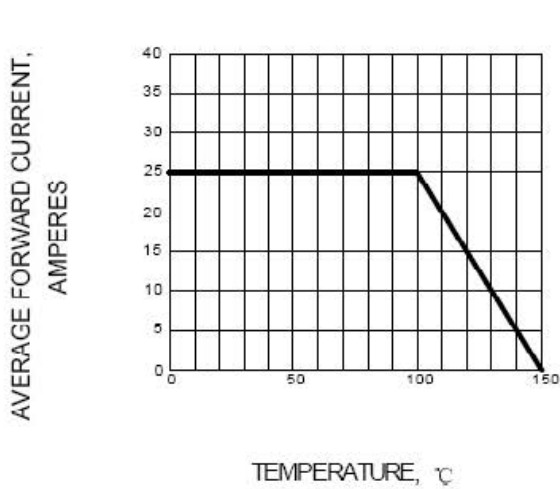


FIG.2 – TYPICAL FORWARD CHARACTERISTIC

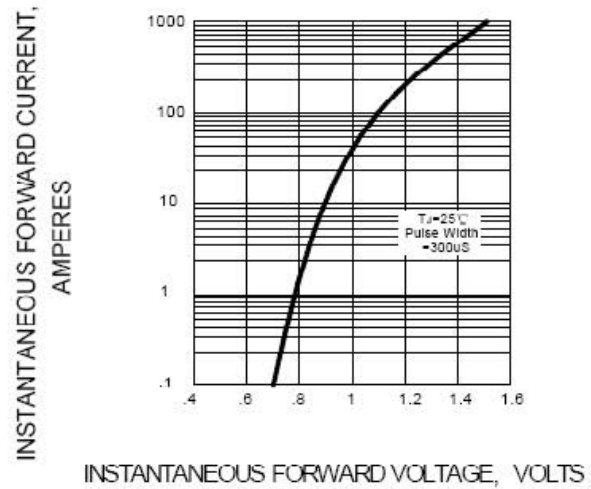


FIG3: Surge Forward Current Capability

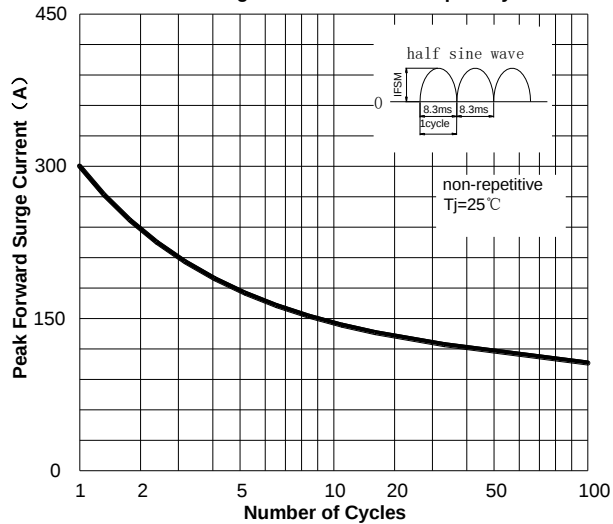


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

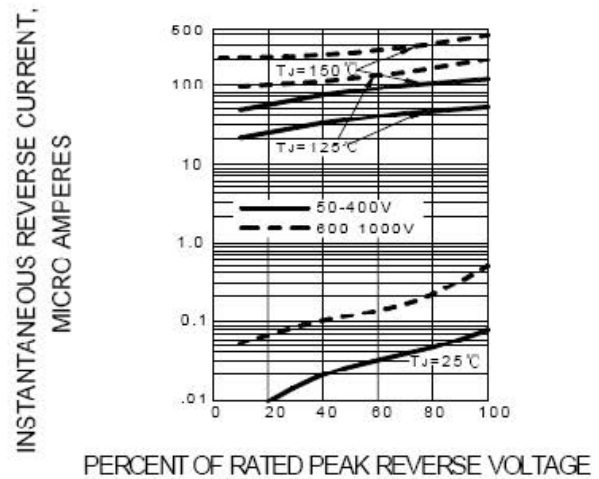


FIG.5 – TYPICAL JUNCTION CAPACITANCE PER LEG

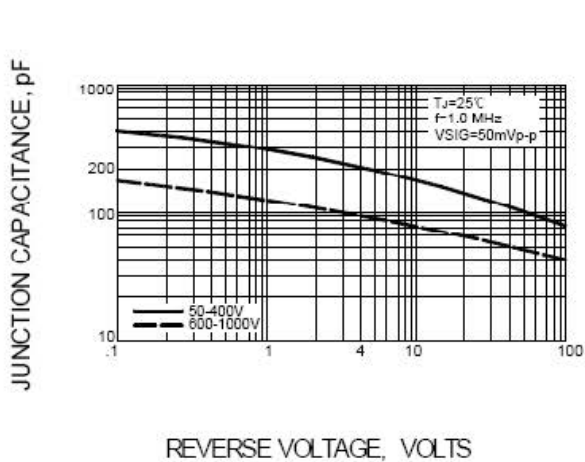
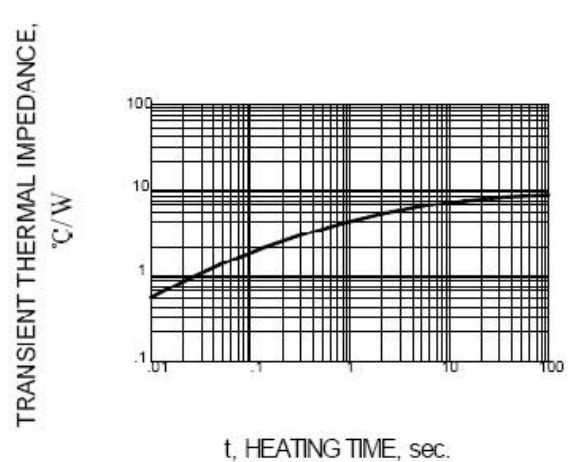


FIG.6 – TYPICAL TRANSIENT THERMAL IMPEDANCE



Device	Package	Shipping
GBU25A-GBU25M	GBU	500 Units/Box