GBU SILICON BRIDGE RECTIFIERV

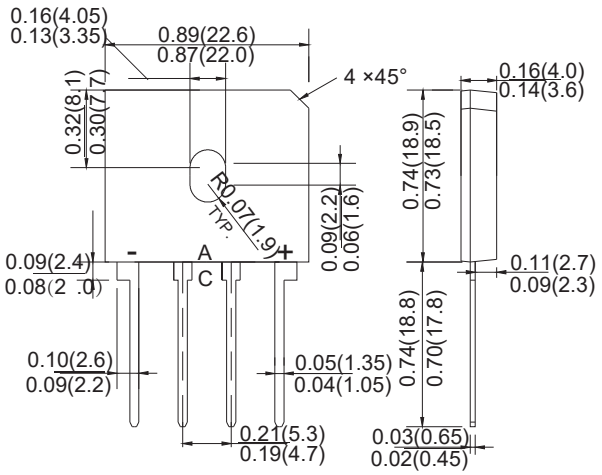
REVERSE VOLTAGE : 50 --- 1000V CURRENT: 4.0A

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing m olded plastic technique
- Plastic materrial has U/L flammability classification 94V-O
- Glass passivated chip junctions

MECHANICAL DATA

- Case style: GBU plastic molded
- Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

Parameter		GBU 4A	GBU 4B	GBU 4D	GBU 4G	GBU 4J	GBU 4K	GBU 4M	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 forw ard Tc=100℃ (note 1) output current @T_A=40℃ (note 2)	$I_{F(AV)}$	4.0 3.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	150.0							A
Maximum instantaneous forw ard voltage at 2.0 A	V_F	1.0							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=125℃	I_R	5.0 500.0							μA
Typical junction capacitance per leg (note 3)	C_J	100				45			pF
Typical thermal resistance per leg (note 2) (note 1)	$R_{\theta JA}$ $R_{\theta JC}$	22.0 4.2							℃/W
Operating junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

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 rev erse v oltage of 4.0 v olts.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 – DERATING CURVE FOR OUTPUT RRECTIFIED CURRENT

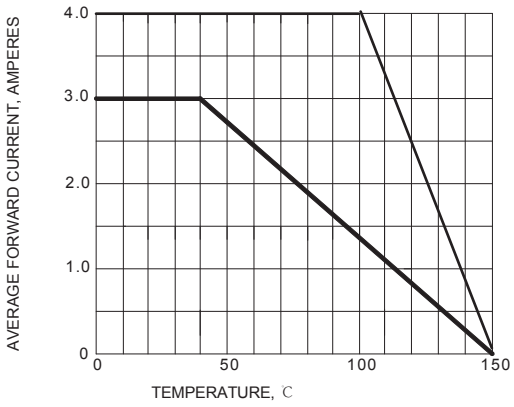


FIG.2 – TYPICAL FORWARD CHARACTERISTIC

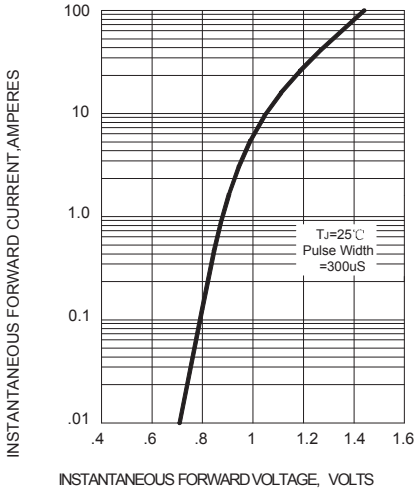


FIG.3 – MAXIMUM NON-REPETITIVE PEAK FORWARD DURGE CURRENT

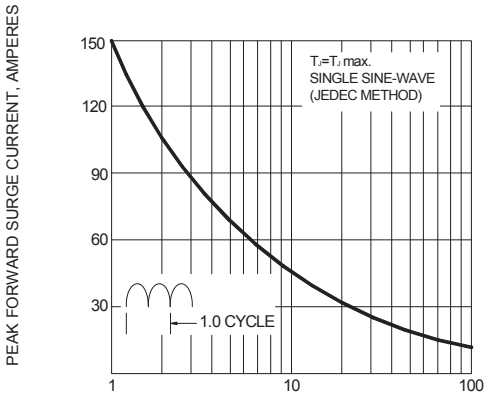


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

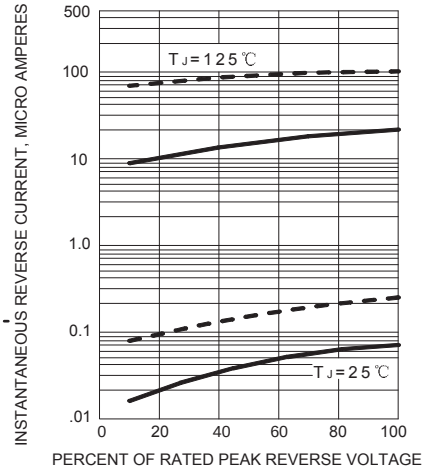


FIG.5 – TYPICAL JUNCTION CAPACITANCE PER LEG

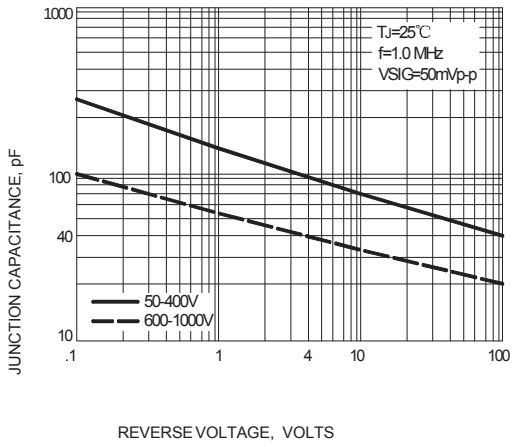


FIG.6 – TYPICAL TRANSIENT THERMAL IMPEDANCE