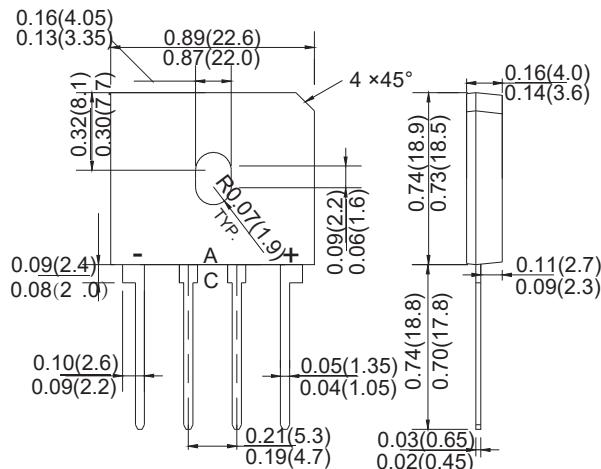


GBU SILICON BRIDGE RECTIFIERV
REVERSE VOLTAGE: 50 --- 1000V CURRENT: 15.0A
FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-O

MECHANICAL DATA

- Case style: GBU plastic molded
- Mounting position: Any
- Weight: 0.138 ounces , 3.9 grams



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 15A	GBU 15B	GBU 15D	GBU 15G	GBU 15J	GBU 15K	GBU 15M	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)}					15.0			A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}					240.0			A
Maximum instantaneous forward voltage at 7.5 A	V _F				1.0				V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I _R				5.0				µA mA
Typical junction capacitance per leg (note 3)	C _J		211			94			pF
Typical thermal resistance per leg (note 2) (note 1)	R _{θJA} R _{θJC}			21.0					°C/W
Operating junction temperature range	T _J		- 55 ---- + 150						°C
Storage temperature range	T _{STG}			- 55 ---- + 150					°C

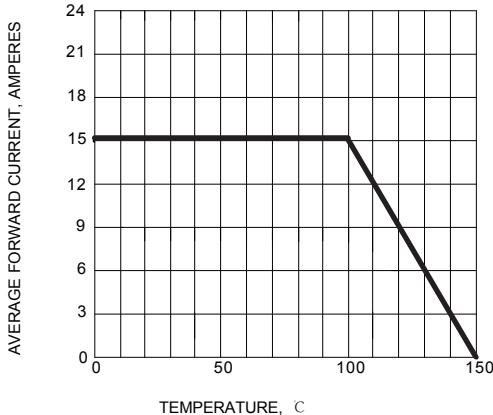
NOTE: 1. Unit case mounted on 3.2x3.2x0.12" thick (6.2x8.2x0.3cm) Al. Plate.

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.

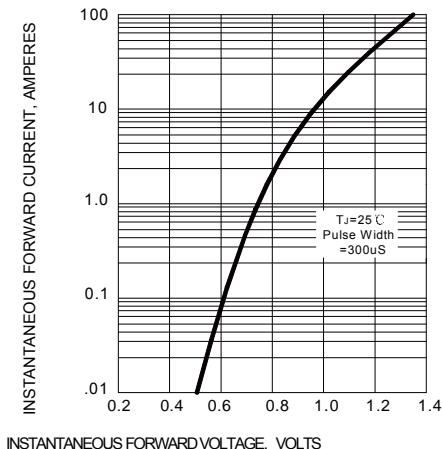
3. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

RATINGS AND CHARACTERISTIC CURVES

**FIG.1 – DERATING CURVE FOR OUTPUT
RECTIFIED CURRENT**



**FIG.2 – TYPICAL FORWARD
CHARACTERISTIC**



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

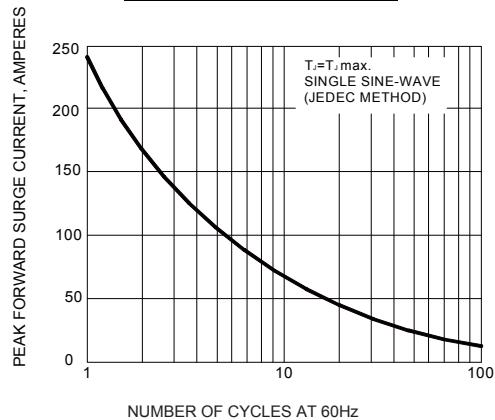


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

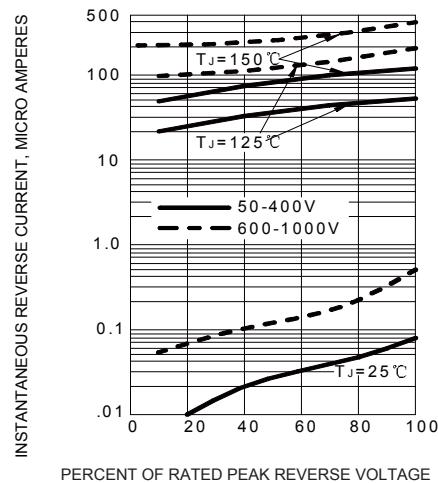


FIG.5 – TYPICAL JUNCTION CAPACITANCE PERLEG

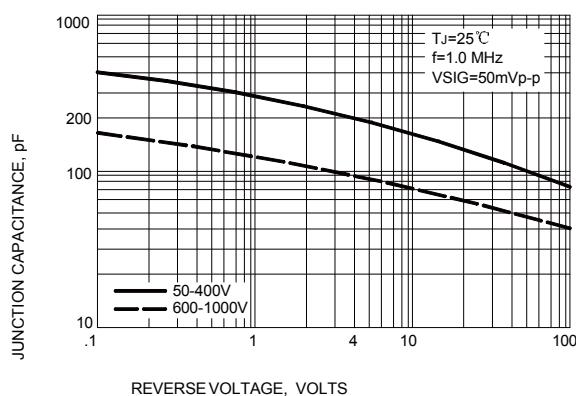


FIG.6 – TYPICAL TRANSIENT THERMAL IMPEDANCE

