

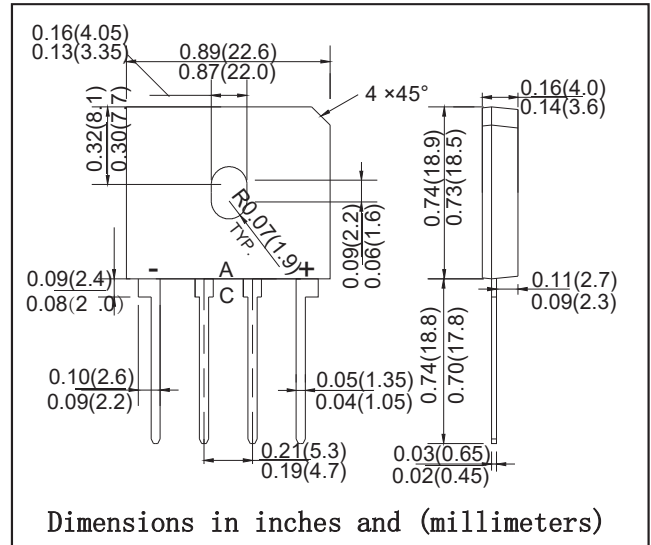
GBU SILICON BRIDGE RECTIFIERV

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

TYPE NUMBER	SYMBOL	GBU 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 1510	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	$I_{F(AV)}$	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	5.0 500.0							μA mA	
Typical junction capacitance per leg	C_J	211				94				pF
Typical thermal resistance per leg	$R_{\theta JA}$ $R_{\theta JC}$	21.0 2.2							°C/W	
Operating junction temperature range	T_J	- 55 ---- + 150							°C	
Storage temperature range	T_{STG}	- 55 ---- + 150							°C	

RATINGS AND CHARACTERISTIC CURVES

FIG.1 – DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

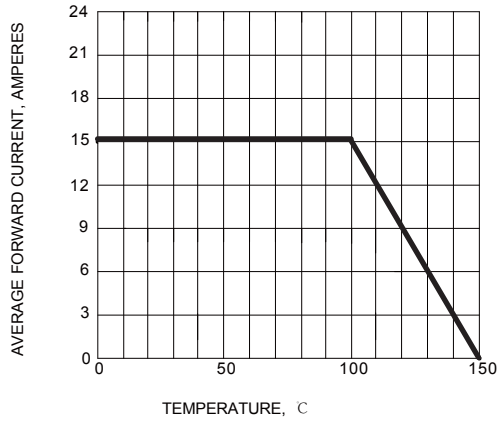


FIG.2 – TYPICAL FORWARD CHARACTERISTIC

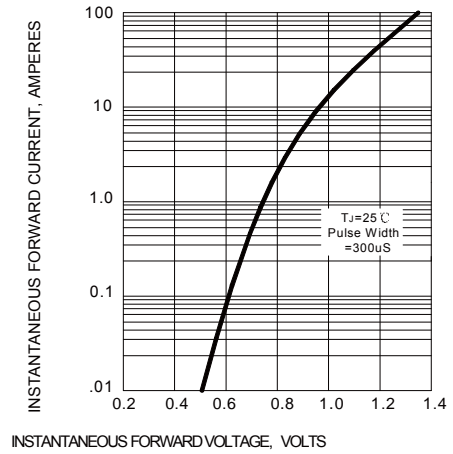


FIG.3 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

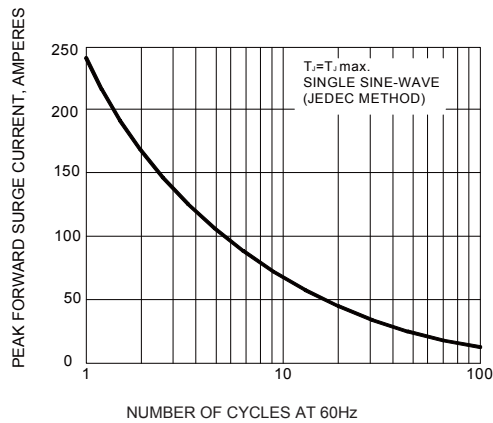


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

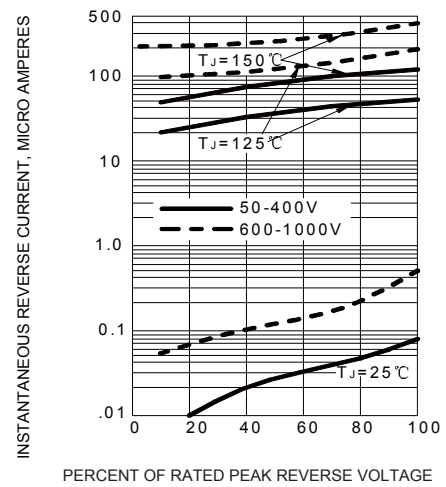


FIG.5 – TYPICAL JUNCTION CAPACITANCE PERLEG

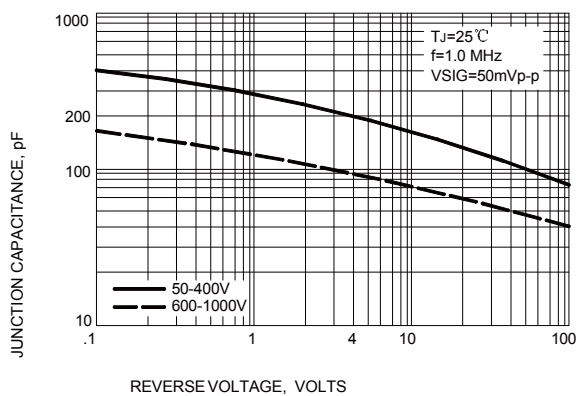


FIG.6 – TYPICAL TRANSIENT THERMAL IMPEDANCE

