



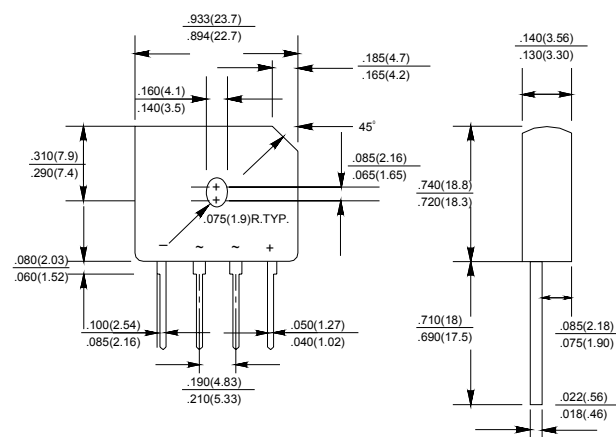
CURRENT: 25.0A

- High Reliability
- High Current Capability
- Low Forward Voltage Drop
- Glass Passivated Die Construction
- High Surge Current Capability
- Ideal for Printed Circuit Boards



GBU

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 4.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



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

Characteristic	Symbol	GBU25A	GBU25B	GBU25D	GBU25G	GBU25J	GBU25K	GBU25M	Unit
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 Tc=100°C output current	I _{F(AV)}	25.0							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 12.5 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 (note 3)	C _J	211				94			pF
Typical thermal resistance per leg (note 2) (note 1)	R _{θJA} R _{θJC}	21.0 2.2							°C/W
Operating junction temperature range	T _J	- 55 ---- + 150							°C
Storage temperature range	T _{STG}	- 55 ---- + 150							°C

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

FIG.1 – DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

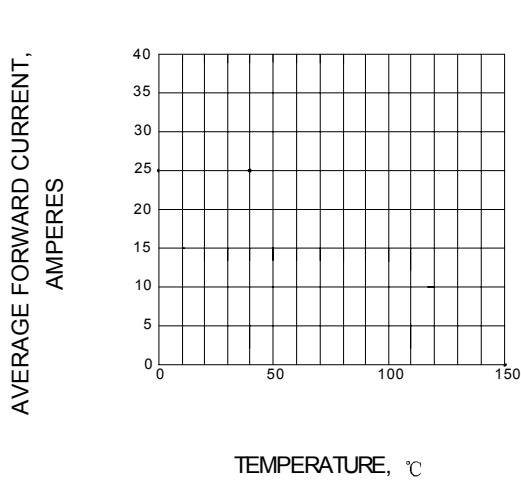


FIG.2 – TYPICAL FORWARD CHARACTERISTIC

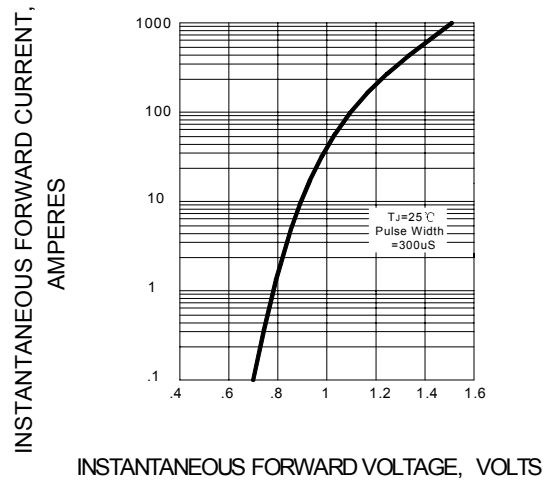


FIG.3 – MAXIMUM NON-REPETITIVE PEAK FORWARD

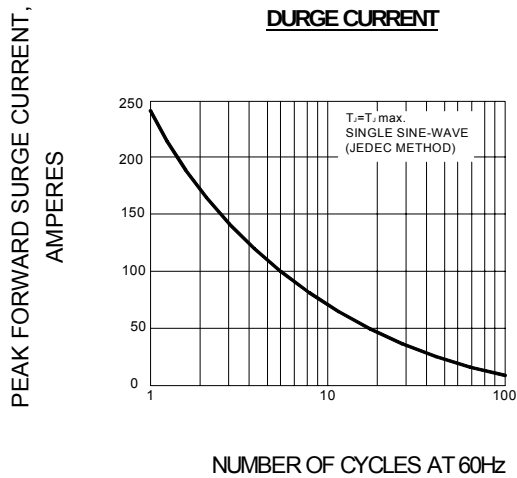


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

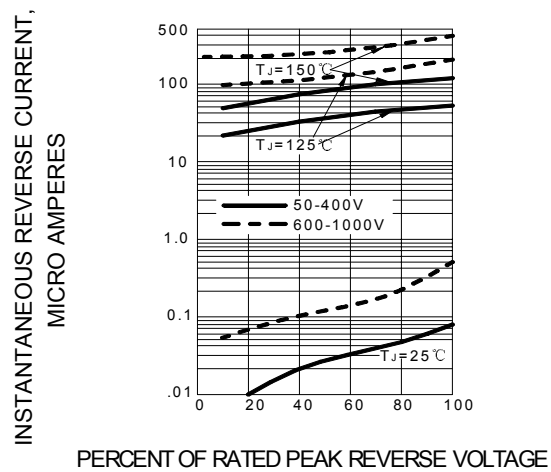


FIG.5 – TYPICAL JUNCTION CAPACITANCE PER LEG

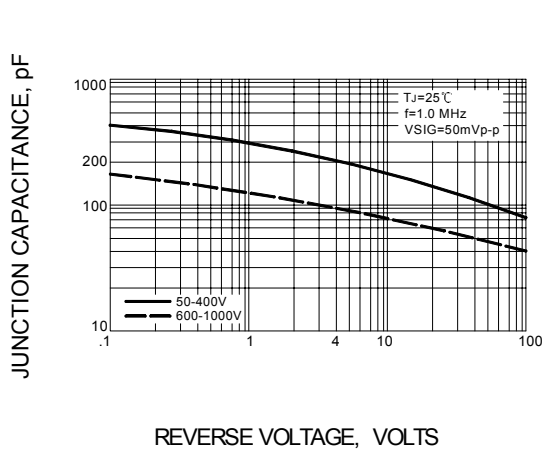


FIG.6 – TYPICAL TRANSIENT THERMAL IMPEDANCE

