

SILICON BRIDGE RECTIFIER
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 4.0 Ampere

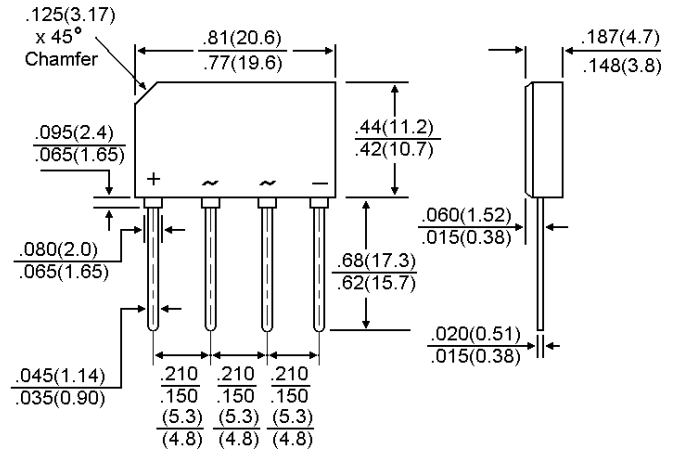
FEATURES

- *Low Forward Voltage Drop
- *High Current Capability
- *High Reliability
- *High Surge Current Capability

MECHANICAL DATA

- *Case: Molded Plastic
- *Epoxy: UL94V-O rate flame retardant
- *Terminals : Plated Leads Solderable
Per MIL-STD-202 Method 208
- *Polarity : As Marking on Body
- *Mounting Position: Any
- *Marking:Type Number

Unit:inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- * Rating at 25°C ambient temperature unless otherwise specified
- * Single phase,half wave. 60Hz, resistive or inductive load.
- * For capacitive load derate current by 20 %

Characteristic	Symbol	GBL005	GBL01	GBL02	GBL04	GBL06	GBL08	GBL10	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectifier Forward Current (Note 1) @ $T_A=50^\circ\text{C}$	$I_{O(AV)}$	4.0							A
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							A
Forward Voltage (per element) ($I_F=4.0$ Amp)	V_{FM}	1.0							V
Peak Reverse Current (Rated DC Voltage, $T_C = 25^\circ\text{C}$) (Rated DC Voltage, $T_C = 150^\circ\text{C}$)	I_R	10 1.0							μA mA
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150							$^\circ\text{C}$

Note: 1 Mounting condition, 0.5" lead length maximum

GBL005 Thru GBL10

FIG-1 FORWARD CURRENT DERATING CURVE

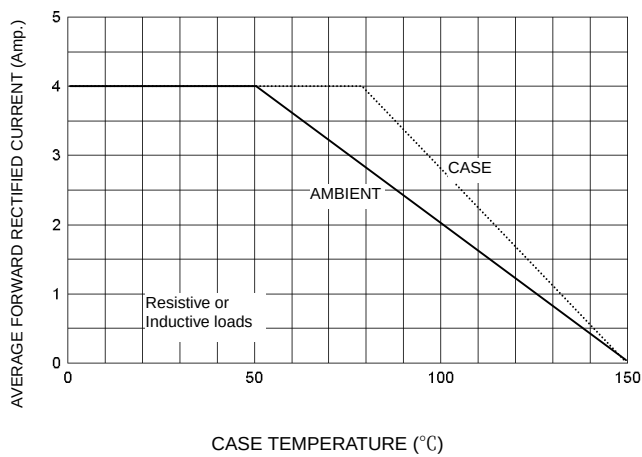


FIG-2 TYPICAL FORWARD CHARACTERISTICS

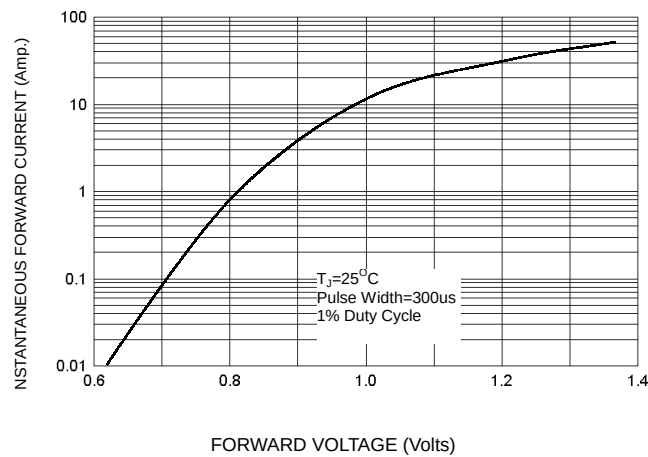


FIG-3 PEAK FORWARD SURGE CURRENT

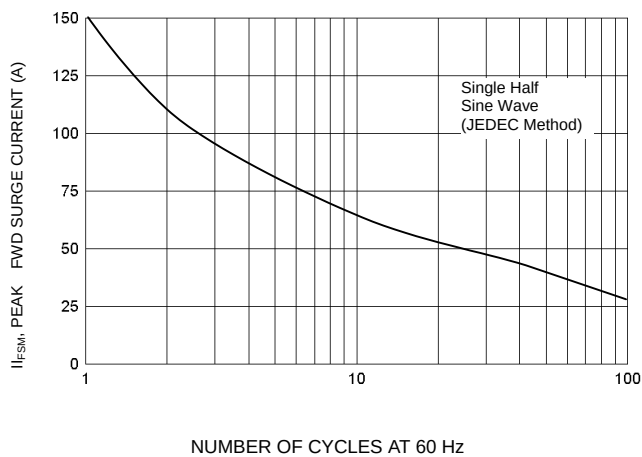


FIG-4 TYPICAL REVERSE CHARACTERISTICS

