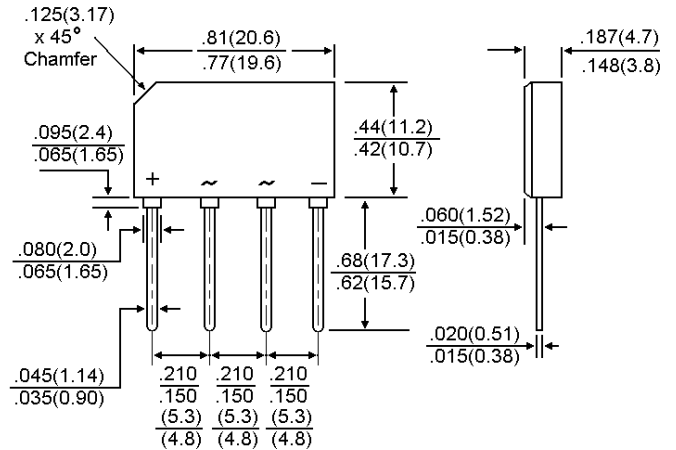


**SILICON BRIDGE RECTIFIER**  
**VOLTAGE RANGE 50 to 1000 Volts**  
**CURRENT 4.0 Ampere**

**FEATURES**

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

Unit: inch(mm)



**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

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

- \* Rating at 25 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) @ $T_A=50$	$I_{O(AV)}$	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, $T_C = 25$ ) ( Rated DC Voltage, $T_C = 150$ )	$I_R$	10 1.0							$\mu A$ mA
Operating and Storage Temperature Range	$T_J, T_{stg}$	-55 to +150							

Note: 1 Mounting condition, 0.5" lead length maximum

# GBL005 Thru GBL10

FIG-1 FORWARD CURRENT DERATING CURVE

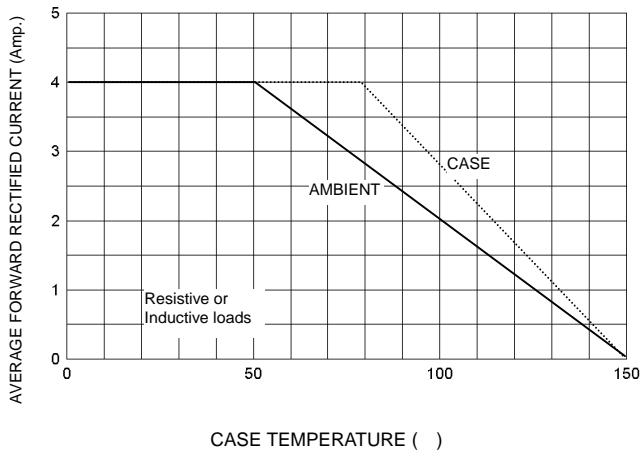


FIG-2 TYPICAL FORWARD CHARACTERISTICS

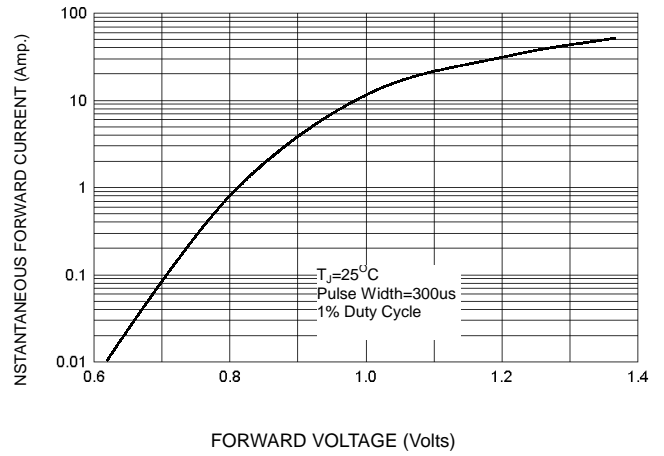


FIG-3 PEAK FORWARD SURGE CURRENT

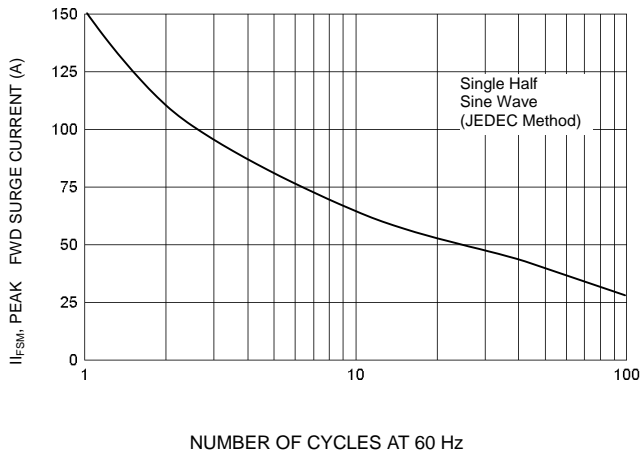


FIG-4 TYPICAL REVERSE CHARACTERISTICS

