



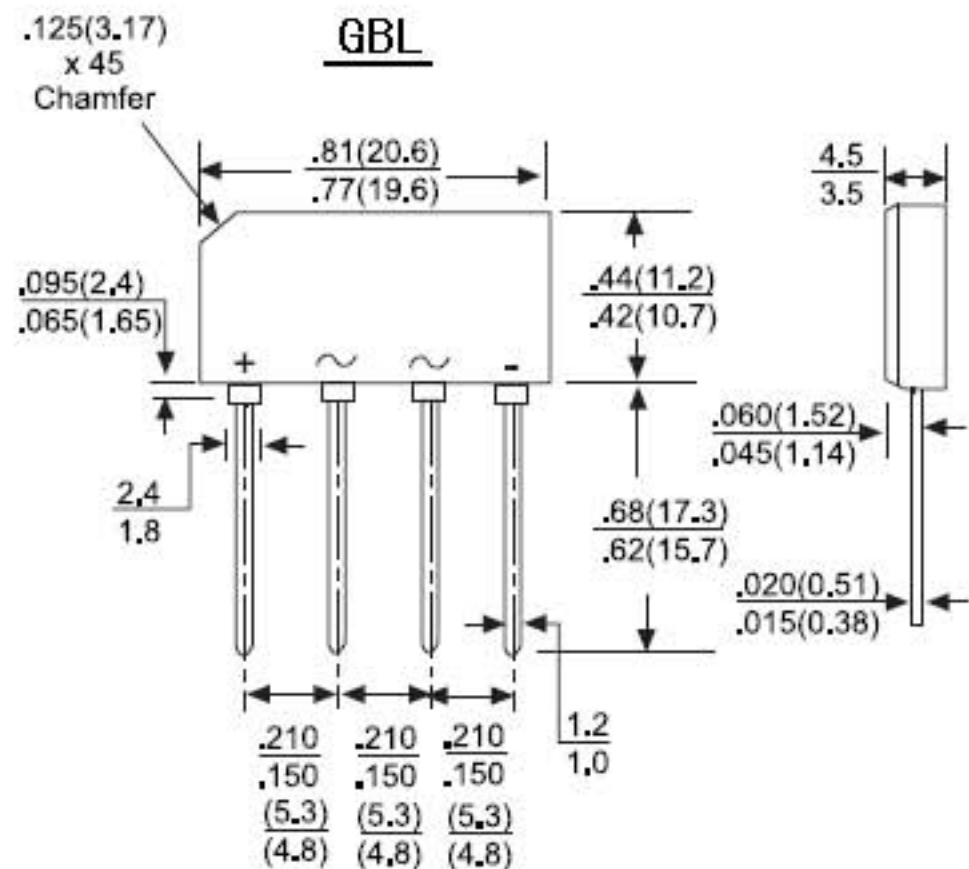
# GBL005 THRU GBL10

**SINGLE PHASE 4.0AMPS.  
GLASS PASSIVATED BRIDGE  
RECTIFIERS**

**Voltage Range  
50 to 1000 Volts  
Current  
4.0 Amperes**

**FEATURES**

- Surge overload rating - 150 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Mounting position: Any



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.  
Resistive or inductive load, 50Hz.  
For capacitive load, derate current by 20%

Type Number		GBL005	GBL01	GBL02	GBL04	GBL06	GBL08	GBL10	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @T <sub>A</sub> = 50°C (Note 1)	I <sub>F(AV)</sub>	4.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I <sub>FSM</sub>	150							A
Maximum Instantaneous Forward Voltage Drop per Leg @ 4.0A	V <sub>F</sub>	1.1							V
Maximun DC Reverse Current at @T <sub>A</sub> = 25°C Rated DC Blocking Voltage @T <sub>A</sub> = 125°C	I <sub>R</sub>	5 1.0							µA mA
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

NOTES: 1. Mounting conditions, 0.5" lead length maximum.



FIG.1 - MAXIMUM NON-REPETITIVE SURGE CURRENT

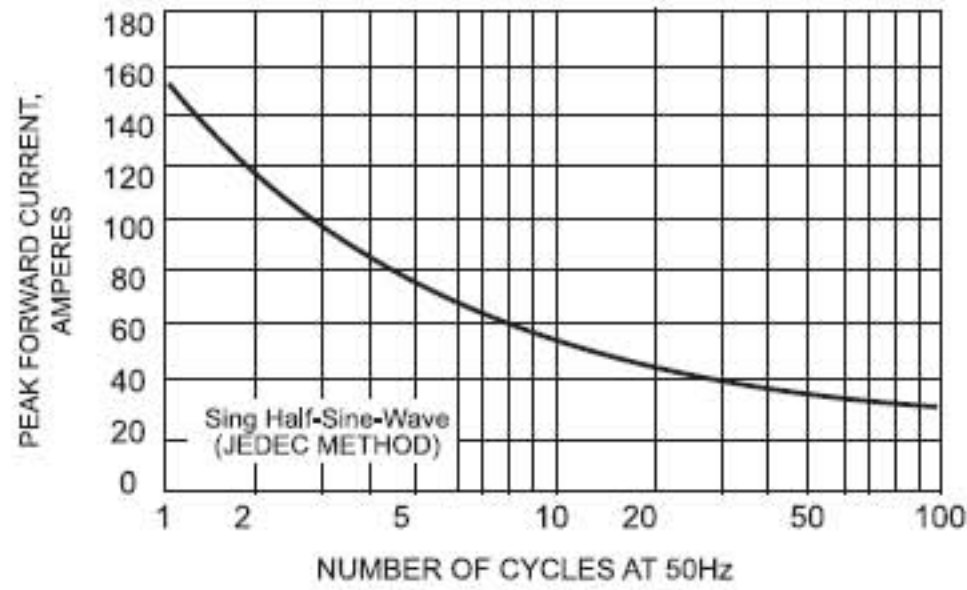


FIG.2 - FORWARD DERATING CURRENT

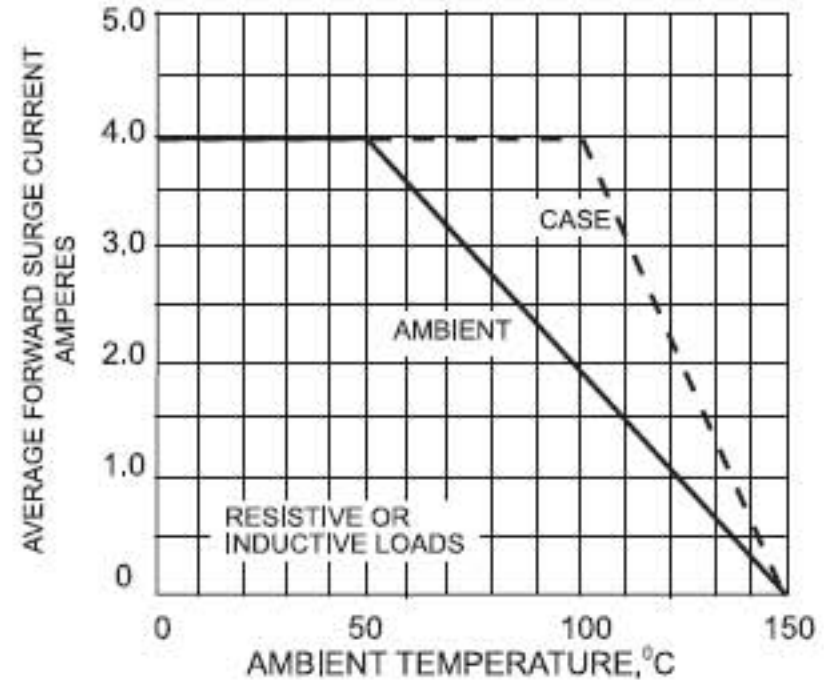


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

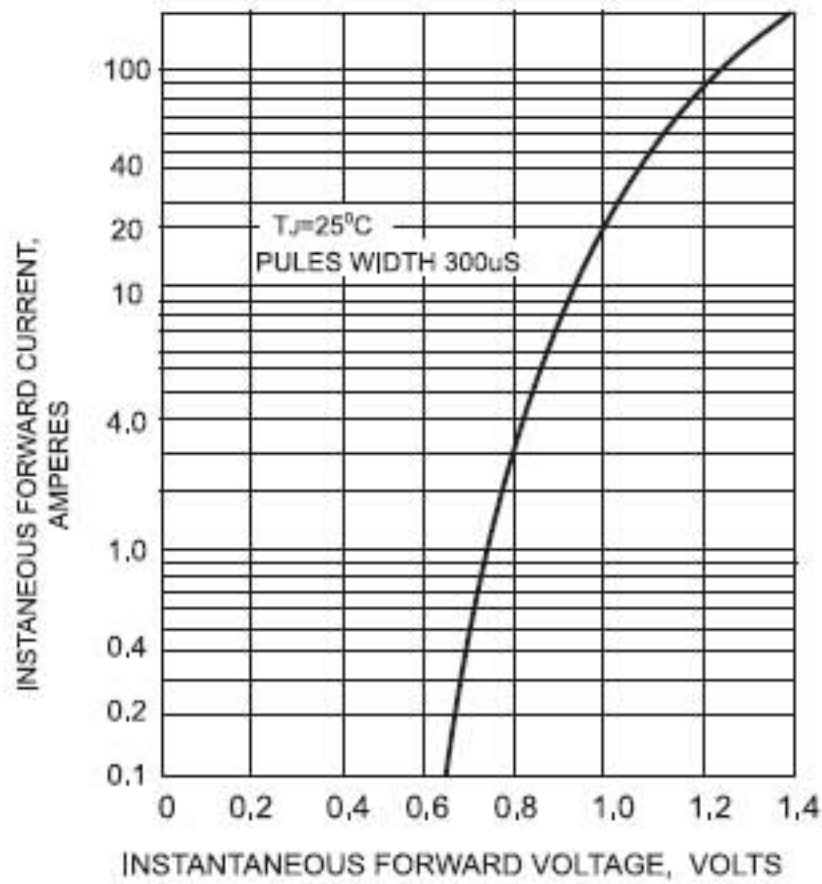


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

