



# GBL005 thru GBL10

<b>GLASS PASSIVATED BRIDGE RECTIFIERS</b>	<b>REVERSE VOLTAGE - 50 to 1000Volts</b> <b>FORWARD CURRENT - 4.0 Amperes</b>
<b>FEATURES</b> <ul style="list-style-type: none"> <li>● Surge overload rating - 125 amperes peak</li> <li>● Ideal for printed circuit board</li> <li>● Plastic material has underwriters laboratory flammability classification 94V-0</li> <li>● Mounting position: Any</li> </ul>	<p style="text-align: center;">2GBJ</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

## 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%

CHARACTERISTICS	SYMBOL	GBL005	GBL01	GBL02	GBL04	GBL06	GBL08	GBL10	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 Rectified Output Current @ T <sub>A</sub> =50°C (Note1)	I <sub>(AV)</sub>	4.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	125							A
Maximum Forward Voltage Drop Per Bridge Element at 4.0A Peak	V <sub>F</sub>	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	10.0							μA
Maximum Reverse Current at Rated DC Blocking Voltage @ T <sub>J</sub> =100°C	I <sub>R</sub>	1.0							mA
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

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

**RATING AND CHARACTERISTIC CURVES**  
**GBL005 thru GBL10**



FIG.1-MAXIMUM NON-REPETITIVE SURGE CURRENT

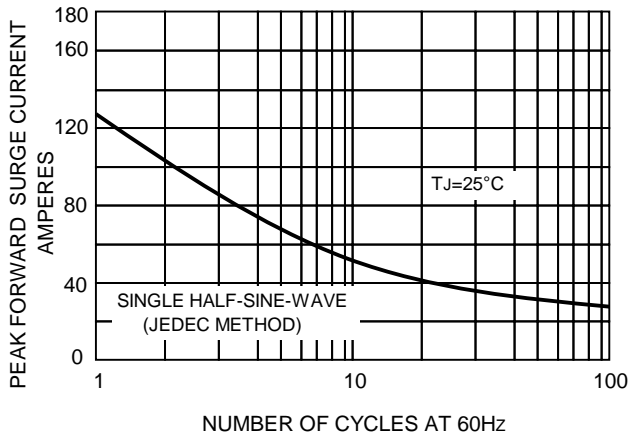


FIG.2-FORWARD DERATING CURRENT

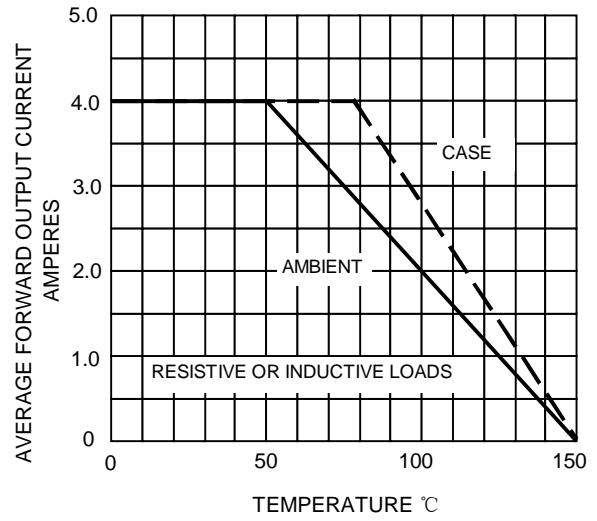


FIG.3-TYPICAL FORWARD CHARACTERISTICS

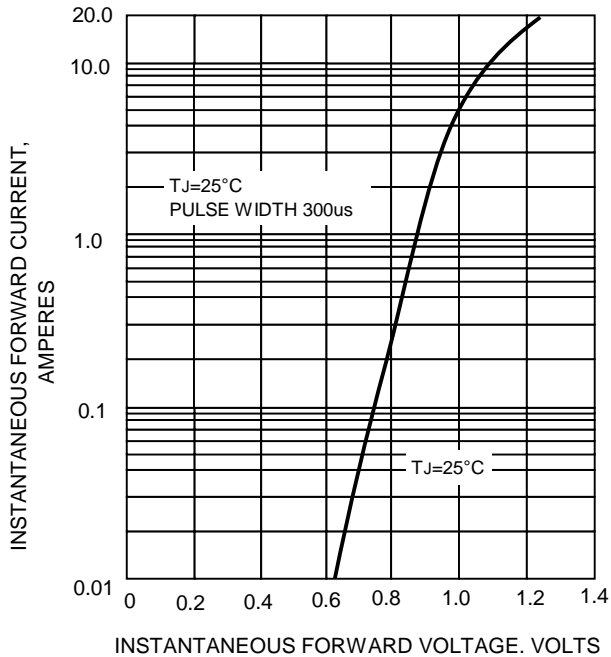


FIG.4-TYPICAL REVERSE CHARACTERISTICS

