

UL Recognized File # E-326243

Glass passivated junction

Ideal for printed circuit board

High case dielectric strength

Typical IR less than 0.1uA

High surge current capability

code & prefix "G" on datecode

Flammability Classification 94V-0

High temperature soldering guaranteed:

GBL005 - GBL10 Single Phase 4.0AMPS. Glass Passivated Bridge Rectifiers GBL

.146(3.70) .130(3.30) C2.5 .799(20.3) .776(19.7) .445(11.3) .106(2.70) .091(2.30) .047(1.20) Plastic material ha Underwriters Laboratory .<u>067(1.70)</u> .051(1.30) 106(2.70) .551(14.0) .512(13.0) .043(1.10) .035(0.90) .024(0.60) 260°C/10 seconds at 5lbs., (2.3kg) tension 1 2 (3) (4) Green compound with suffix "G" on packing 205(5.20) 189(4.80) .205(5.20) .205(5.20) .205(5.20) .205(5.20) .189(4.80) 1 0 3

Mechanical Data

Features

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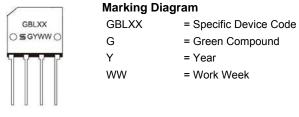
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- Case: Molded plastic body ∻
- ∻ Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- Weight: 2.0 grams ♦
- ∻ Mounting position: Any

Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!\!\mathbb{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	GBL 005	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 10	Unit
Maximum Repetitive Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _c =50°C @T _A =40°C		4 3						A	
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)		150						А	
Rating for fusing (t<8.3ms)		93							A ² S
Maximum Instantaneous Forward Voltage (Note 1 @ 2 A @ 4 A) V _F				1.0 1.1				V
Maximum DC Reverse Current $@T_A=25\%$ at Rated DC Block Voltage $@T_A=125\%$		5 500						uA	
Typical Junction Capabitance	Cj		g	95			40		pF
Typical Thermal Resistance		32 13 8							°C/W
Operating Temperature Range		- 55 to + 150							°C
Storage Temperature Range		- 55 to + 150							°C

Notes 1: Pulse Test with PW=300 usec, 1% Duty Cycle



RATINGS AND CHARACTERISTIC CURVES (GBL005 THRU GBL10)

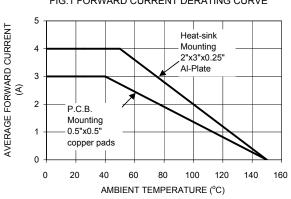


FIG.1 FORWARD CURRENT DERATING CURVE

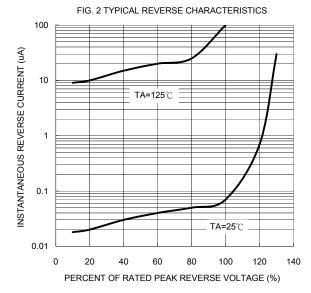


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

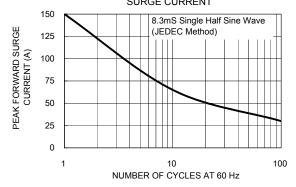


FIG. 5 TYPICAL FORWARD CHARACTERISRICS

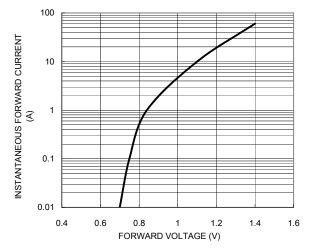
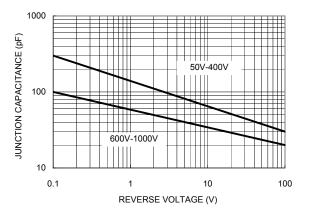


FIG. 4 TYPICAL JUNCTION CAPACITANCE



Version:G12