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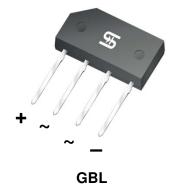




## 4A, 50V - 1000V Glass Passivated Single Phase Bridge Rectifiers

### **FEATURES**

- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength
- Typical IR less than 0.1µA
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21







#### **MECHANICAL DATA**

Case: GBL

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

**Polarity:** As marked **Weight:** 2 g (approximately)

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DADAMETED	CVMDC	GBL	GBL	GBL	GBL	GBL	GBL	GBL	11-22
PARAMETER	SYMBOL	005	01	02	04	06	80	10	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	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 current  @T <sub>C</sub> =50°C  @T <sub>A</sub> =40°C	I <sub>F(AV)</sub>				4 3				Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	150						А	
Rating for fusing (t<8.3ms)	l <sup>2</sup> t				93				A <sup>2</sup> s
Maximum instantaneous forward voltage (Note 1) @ 2 A @ 4 A	V <sub>F</sub>				1.0 1.1				V
Maximum reverse current @ rated $V_R$ $T_J$ =25°C $T_J$ =125°C	I <sub>R</sub>	5 500			μA				
Typical junction capabitance	CJ		9	)5			40		pF
Typical thermal resistance	$egin{array}{c} R_{ heta JC} \ R_{ heta JA} \end{array}$	8 13 32			°C/W				
Operating junction temperature range	T <sub>J</sub>	- 55 to +150						°C	
Storage temperature range	T <sub>STG</sub>	- 55 to +150						°C	

Note 1: Pulse test with PW=300µs, 1% duty cycle





ORDERING INFORMATION						
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX <sup>(*)</sup>	PACKAGE	PACKING	
ODL		C2		GBL	25 / Tube	
GBLxx (Note 1)	Н	X0	G	GBL	25 / Tube / Forming	
(14010-1)		D2		GBL	25 / Tube	

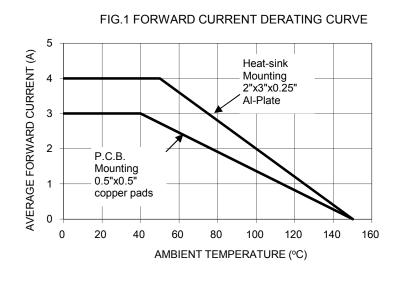
Note 1: "xx" defines voltage from 50V (GBL005) to 1000V (GBL10)

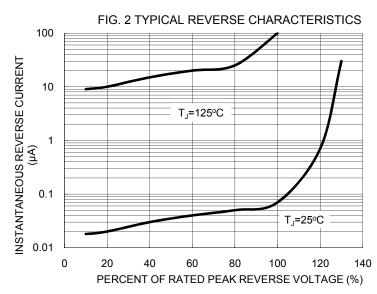
<sup>\*:</sup> Optional available

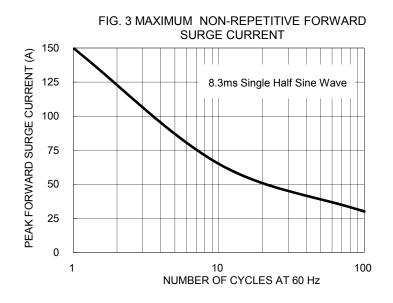
EXAMPLE						
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
GBL10HC2G	GBL10	н	C2	G	AEC-Q101 qualified Green compound	

#### **RATINGS AND CHARACTERISTICS CURVES**

(T<sub>A</sub>=25°C unless otherwise noted)







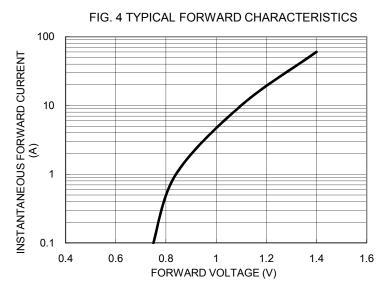
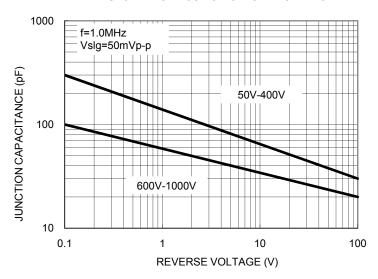
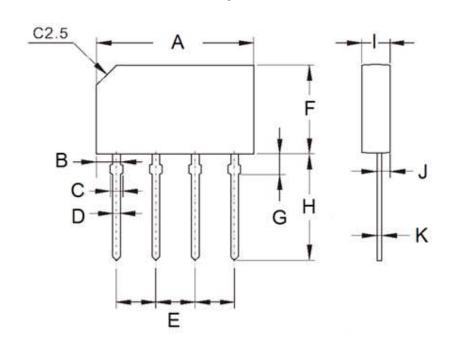




FIG. 5 TYPICAL JUNCTION CAPACITANCE



# PACKAGE OUTLINE DIMENSIONS GBL



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min Max		Min	Max	
Α	19.70	20.30	0.776	0.799	
В	2.30	2.70	0.091	0.106	
С	1.30	2.00	0.051	0.079	
D	0.90	1.10	0.035	0.043	
E	4.80	5.20	0.189	0.205	
F	10.70	11.30	0.421	0.445	
G	2.30	2.70	0.091	0.106	
Н	13.00	14.00	0.512	0.551	
Ī	3.30	3.70	0.130	0.146	
J	0.80	1.20	0.031	0.047	
K	0.40	0.60	0.016	0.024	

#### **MARKING DIAGRAM**



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code



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