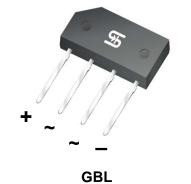


4A, 50V - 1000V Glass Passivated Single Phase Bridge Rectifiers

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

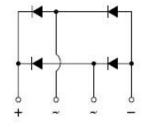
Part no. with suffix "H" means AEC-Q101 qualified

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)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	GBL	GBL	GBL	GBL	GBL	GBL	GBL	Unit
PARAIVIETER	STIVIBUL	005	01	02	04	06	08	10	Onit
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_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @T _C =50°C @T _A =40°C	I _{F(AV)}	4 3						А	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150					Α		
Rating for fusing (t<8.3ms)	l ² t	93					A ² s		
Maximum instantaneous forward voltage (Note 1) @ 2 A @ 4 A	V _F				1.0 1.1				V
Maximum reverse current @ rated V_R T_J =25°C T_J =125°C	I _R	5 500			μΑ				
Typical junction capabitance	CJ	95			40			pF	
Typical thermal resistance	$R_{ extstyle heta JC} \ R_{ extstyle heta JA}$	8 13 32			°C/W				
Operating junction temperature range	TJ	- 55 to +150					°C		
Storage temperature range	T _{STG}	- 55 to +150				°C			

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



ORDERING INFORMATION							
PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING		
	SUFFIX	CODE	SUFFIX (*)	PACKAGE	PACKING		
GBLxx (Note 1)	н	C2		GBL	25 / Tube		
		X0	G	GBL	25 / Tube / Forming		
		D2		GBL	25 / Tube		

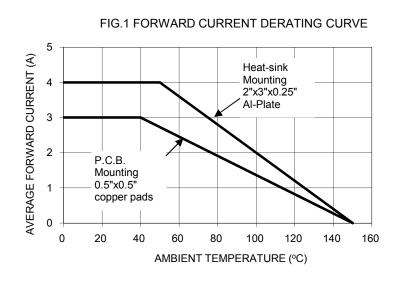
Note 1: "xx" defines voltage from 50V (GBL005) to 1000V (GBL10)

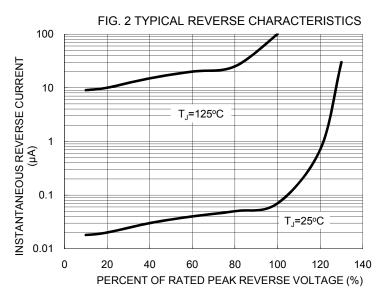
^{*:} Optional available

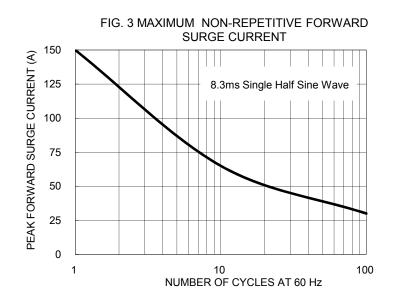
EXAMPLE						
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
GBL10HC2G	GBL10	н	C2	G	AEC-Q101 qualified Green compound	

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







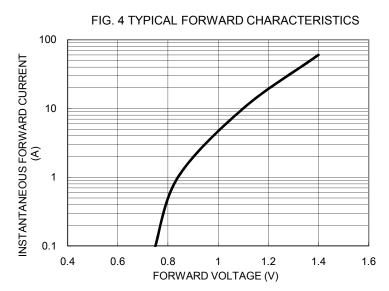
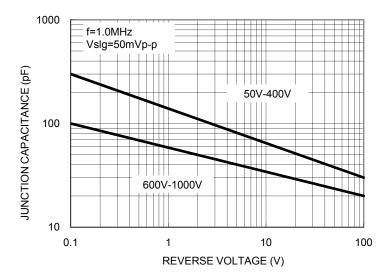


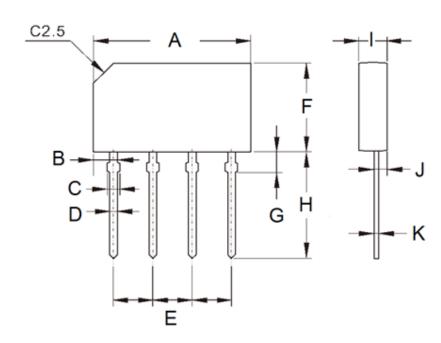


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS

GBL



DIM.	Unit	(mm)	Unit (inch)			
DIW.	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		
Е	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		
I	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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