imall

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength
- Typical I_{R} less than $0.1 \mu A$
- 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

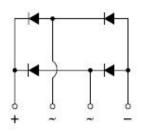
Weight: 2.0 g (approximately)











		GBLA GBLA		GBI A	GBI 4	GBLA	GBLA	GBLA	
PARAMETER	SYMBOL	005	01	02	04	06	08	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 _{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					A		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120					А		
Rating for fusing (t<8.3ms)	l ² t	59					A ² s		
Maximum instantaneous forward voltage (Note 1) @ 4 A	V _F	1.0					V		
Maximum reverse current @ rated V_R T _J =25°C T _J =125°C	I _R	5 500						μA	
Typical junction capabitance	CJ		ç	95			40		pF
Typical thermal resistance	R _{θJL} R _{θJA}	10 47			°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



Taiwan Semiconductor

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

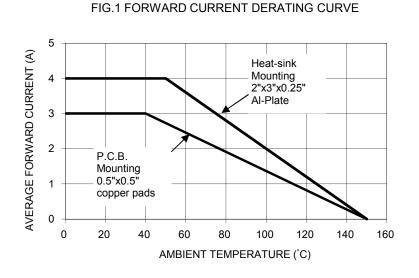
Note 1: "xx" defines voltage from 50V (GBLA005) to 1000V (GBLA10)

*: Optional available

EXAMPLE							
PREFERRED P/N	PART NO. PART NO. SUFFIX		PACKING CODE SUFFIX	DESCRIPTION			
GBLA10HC2G	GBLA10	Н	C2	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



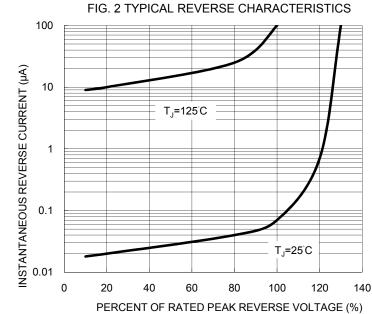


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

FIG. 4 TYPICAL FORWARD CHARACTERISTICS

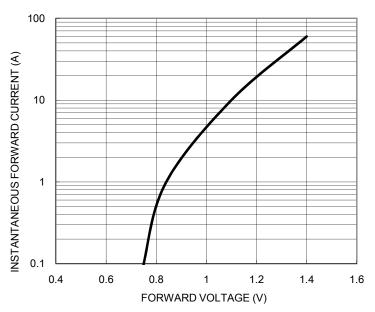
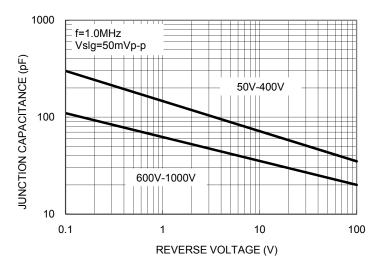
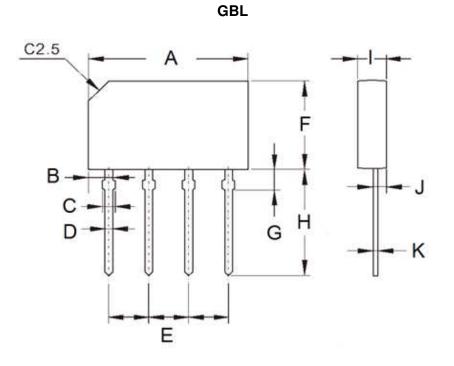




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
А	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	
I	3.30	3.70	0.130	0.146	
J	0.80	1.20	0.031	0.047	
К	0.40	0.60	0.016	0.024	

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound
- YWW = Date Code
 - = Factory Code



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