

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

FEATURES

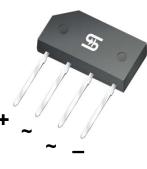
- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength
- Typical I_{R} less than $0.1 \mu A$
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

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

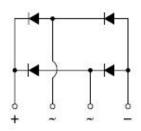
Weight: 2.0 g (approximately)











MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
SYMBOL	GBLA 005	GBLA 01	GBLA 02	GBLA 04	GBLA 06	GBLA 08	GBLA 10	Unit
V _{RRM}	50	100	200	400	600	800	1000	V
V _{RMS}	35	70	140	280	420	560	700	V
V _{DC}	50	100	200	400	600	800	1000	V
I _{F(AV)}	4 3					A		
urge current, 8.3 ms single half sine-wave I _{FSM} 120			А					
l ² t	59					A ² s		
V _F	1.0				V			
I _R	5 500				μA			
CJ	95 40			pF				
R _{θJL} R _{θJA}	10 47			°C/W				
TJ	- 55 to +150		°C					
T _{STG}	- 55 to +150					°C		
	SYMBOL V_{RRM} V_{RMS} V_{DC} $I_{F(AV)}$ I_{FSM} I^2t V_F I_R C_J $R_{\theta JL}$ $R_{\theta JA}$ T_J	$\begin{tabular}{ c c c c } \hline SYMBOL & GBLA \\ \hline 005 \\$	$\begin{tabular}{ c c c c c } \hline SYMBOL & GBLA & GBLA \\ \hline 005 & 01 \\ \hline 0$	$ \begin{array}{c c c c c c c } \hline SYMBOL & GBLA & GBLA & GBLA \\ \hline 005 & 01 & 02 \\ \hline V_{RRM} & 50 & 100 & 200 \\ \hline V_{RMS} & 35 & 70 & 140 \\ \hline V_{DC} & 50 & 100 & 200 \\ \hline V_{DC} & 50 & 100 & 200 \\ \hline I_{F(AV)} & & & & & \\ \hline I_{F(AV)} & & & & & & \\ \hline I_{FSM} & & & & & & \\ \hline I_{FSM} & & & & & & & \\ \hline I_{FSM} & & & & & & & \\ \hline I_{FSM} & & & & & & & \\ \hline I_{R} & & & & & & & \\ \hline I_{R} & & & & & & & \\ \hline I_{R} & & & & & & & & \\ \hline I_{R} & & & & & & & & \\ \hline I_{R} & & & & & & & & \\ \hline I_{R} & & & & & & & & \\ \hline I_{R} & & & & & & & & & \\ \hline I_{R} & & & & & & & & & \\ \hline I_{R} & & & & & & & & & \\ \hline I_{R} & & & & & & & & & \\ \hline I_{R} & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & & & & &$	$\begin{tabular}{ c c c c c c c } \hline SYMBOL & GBLA & 005 & 01 & 02 & 04 & 00 & 00 & 00 & 00 & 00 & 00$	$\begin{tabular}{ c c c c c c } \hline \mathbf{SYMBOL} & \mathbf{GBLA} & \mathbf{GBL} & $	$ \begin{array}{ c c c c } \hline SYMBOL & GBLA & GBL$	$ \begin{array}{ c c c c c } \hline SYMBOL & GBLA & 0.6 & 0.8 & 10 & 0.$

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



Taiwan Semiconductor

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

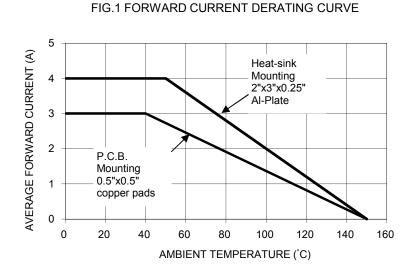
Note 1: "xx" defines voltage from 50V (GBLA005) to 1000V (GBLA10)

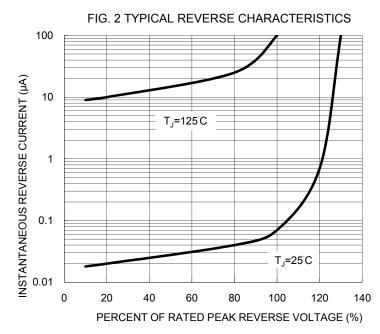
*: Optional available

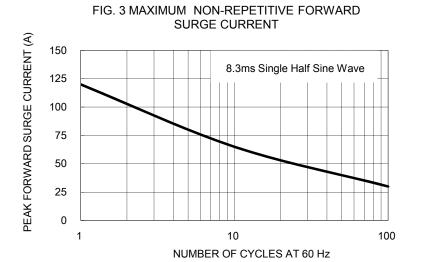
EXAMPLE								
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION			
GBLA10HC2G	GBLA10	Н	C2	G	AEC-Q101 qualified Green compound			

RATINGS AND CHARACTERISTICS CURVES

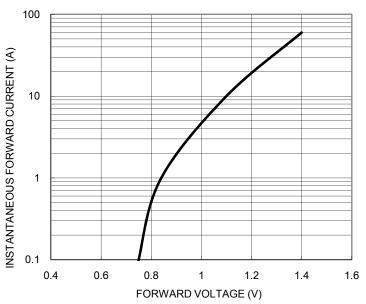
(T_A=25°C unless otherwise noted)







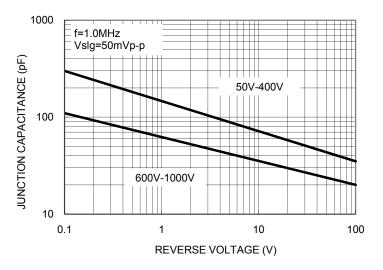




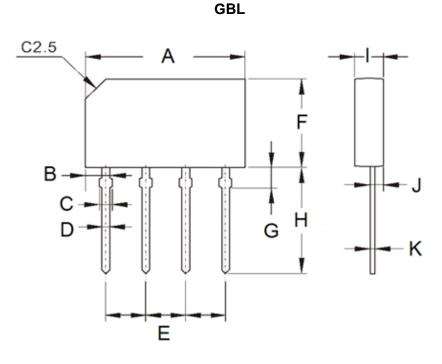
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FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIN.	Min	Min Max		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	
К	0.40	0.60	0.016	0.024	

MARKING DIAGRAM





= Green Compound

- = Date Code
- = Factory Code



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