

- Typical IR less than 0.1pA
- 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 definition



GBL



MECHANICAL DATA

**Case:** GBL

Molding compound, UL flammability classification rating 94V-0

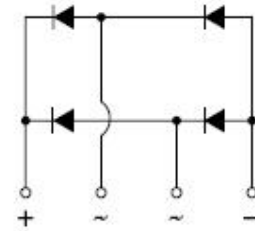
Base P/N with suffix "G" on packing code - green compound (halogen-free)

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

Meet JESD 201 class 1A whisker test

**Polarity:** As marked

**Weight:** 2.0 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	GBLA 005	GBLA 01	GBLA 02	GBLA 04	GBLA 06	GBLA 08
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800
Maximum average forward rectified current @T <sub>C</sub> =50°C @T <sub>A</sub> =40°C	I <sub>F(AV)</sub>				4 3		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>				120		
Rating for fusing (t<8.3ms)	I <sup>2</sup> t				59		
Maximum instantaneous forward voltage (Note 1) @ 4 A	V <sub>F</sub>				1.0		
Maximum reverse current @ rated VR T <sub>J</sub> =25 °C T <sub>J</sub> =125 °C	I <sub>R</sub>				5 500		
Typical junction capacitance	C <sub>j</sub>		95				40
Typical thermal resistance	R <sub>θjL</sub> R <sub>θjA</sub>				10 47		
Operating junction temperature range	T <sub>J</sub>				- 55 to +150		
Storage temperature range	T <sub>STG</sub>				- 55 to +150		

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

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EXAMPLE

PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
GBLA10 C2	GBLA10	C2		
GBLA10 C2G	GBLA10	C2	G	Green comp

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

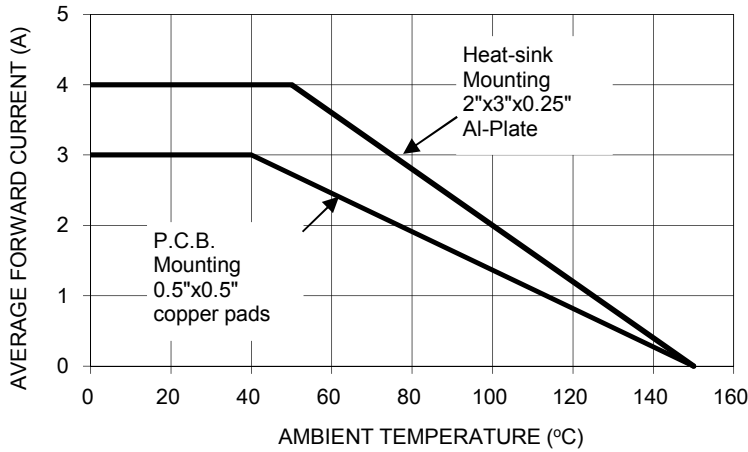


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

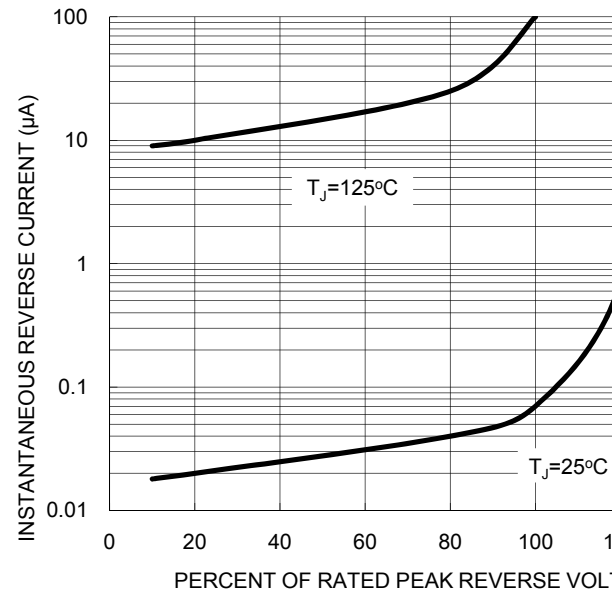


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

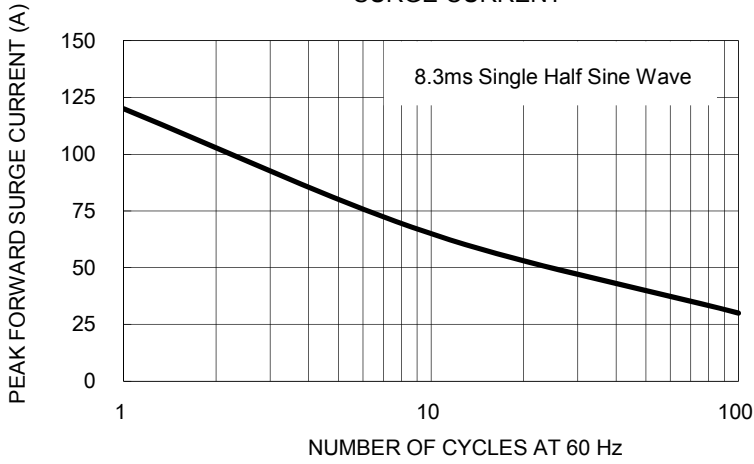
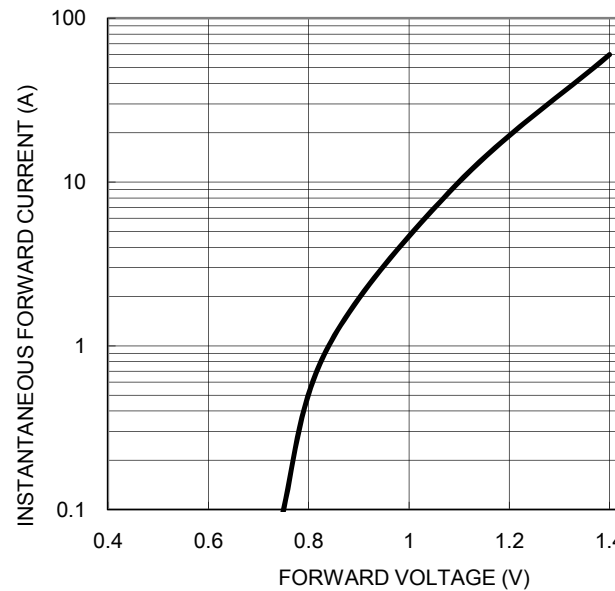
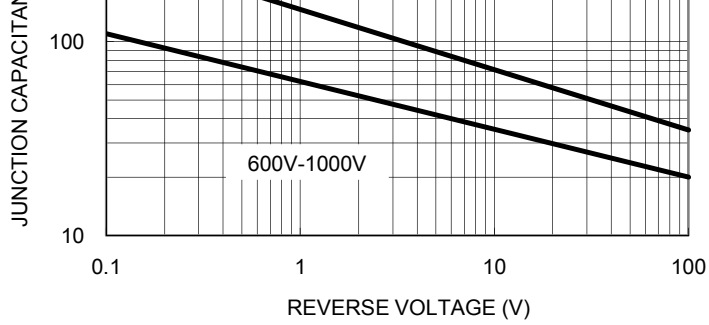


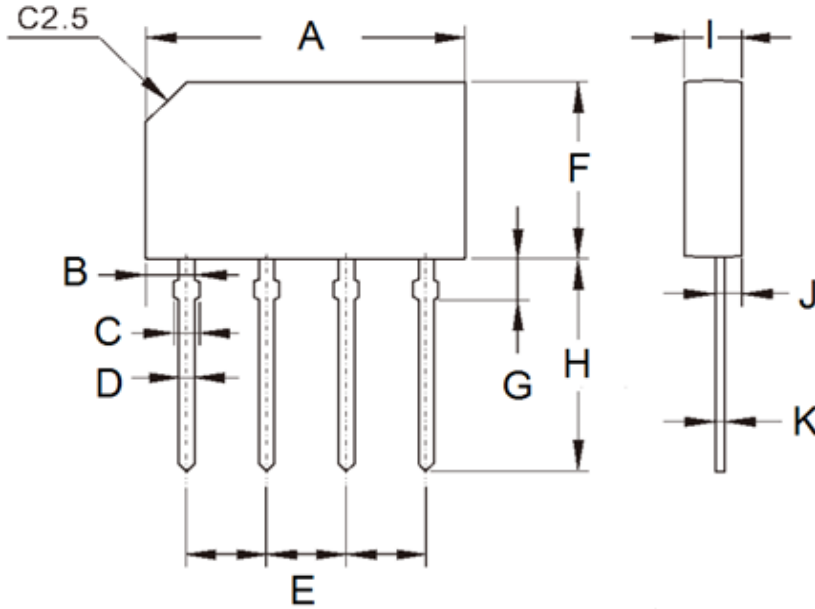
FIG. 4 TYPICAL FORWARD CHARACTERISTICS





PACKAGE OUTLINE DIMENSIONS

GBL



DIM.	Unit (mm)		Unit (inc)	
	Min	Max	Min	Max
A	19.70	20.30	0.776	0.800
B	2.30	2.70	0.091	0.106
C	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
H	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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