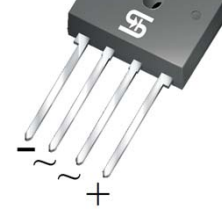
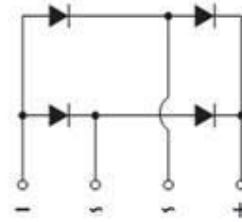


- Typical IR less than 0.1pA
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



GBU



MECHANICAL DATA

Case: GBU

Molding compound, UL flammability classification rating 94V-0

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

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

Polarity: As marked

Weight: 4 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	GBU 801	GBU 802	GBU 803	GBU 804	GBU 805	GBU 806
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800
Maximum average forward rectified current	I _{F(AV)}	8					
Peak forward surge current, 8.3 ms single half sine-wave	I _{FSM}	200					
Rating of fusing (t<8.3ms)	I ² t	166					
Maximum Instantaneous Forward Voltage (Note 1) I _F = 4 A I _F = 8 A	V _F					1.0 1.1	
Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C	I _R					5 500	
Typical junction capacitance per leg (Note 2)	C _j	211				94	
Typical thermal resistance	R _{θJC} R _{θJA}					2 21	
Operating junction temperature range	T _J	- 55 to +150					
Storage temperature range	T _{STG}	- 55 to +150					

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

Note 2: Measured at 1MHz and applied Reverse bias of 4.0V DC



EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTIO
GBU806 C2	GBU806	C2		
GBU806 C2G	GBU806	C2	G	Green compou

RATINGS AND CHARACTERISTICS CURVES

($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT CURRENT

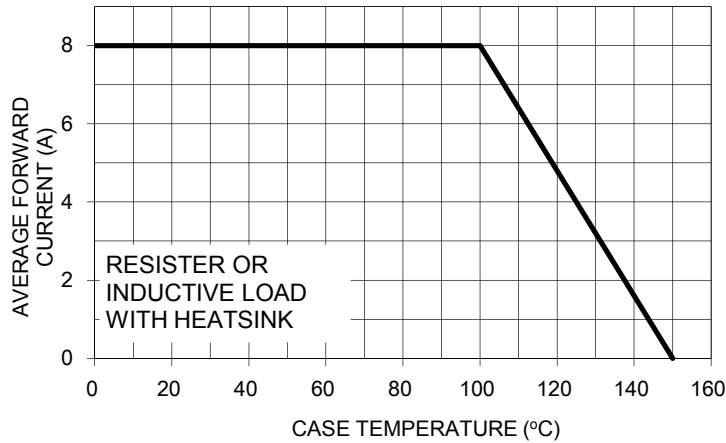


FIG. 2- MAXIMUM FORWARD SURGE CURRENT PER LEG

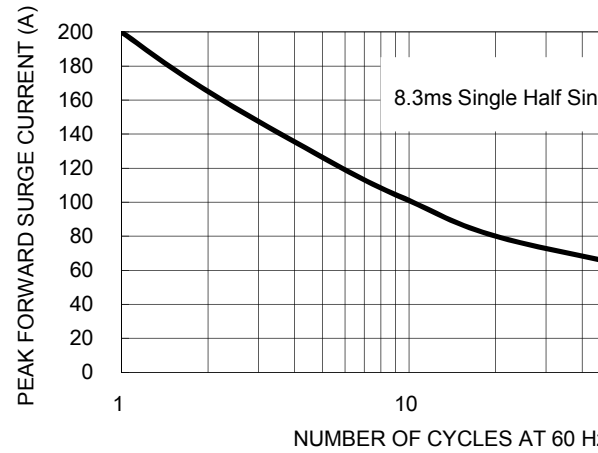


FIG. 3- TYPICAL REVERSE CHARACTERISTICS PER LEG

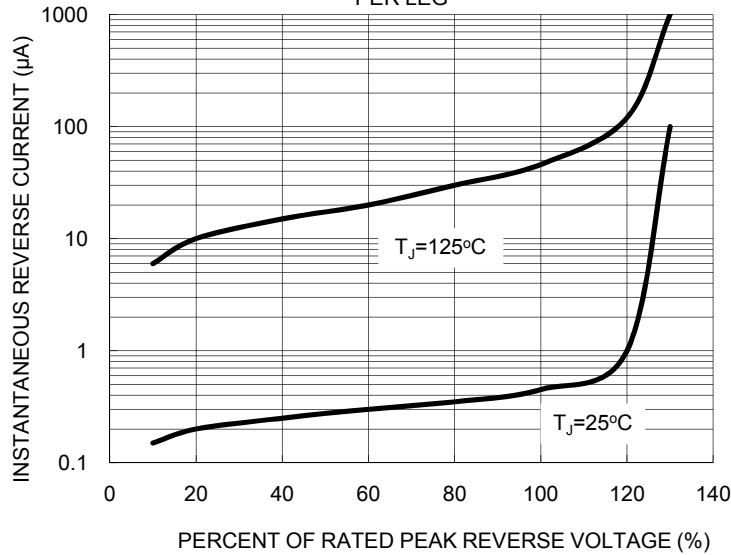
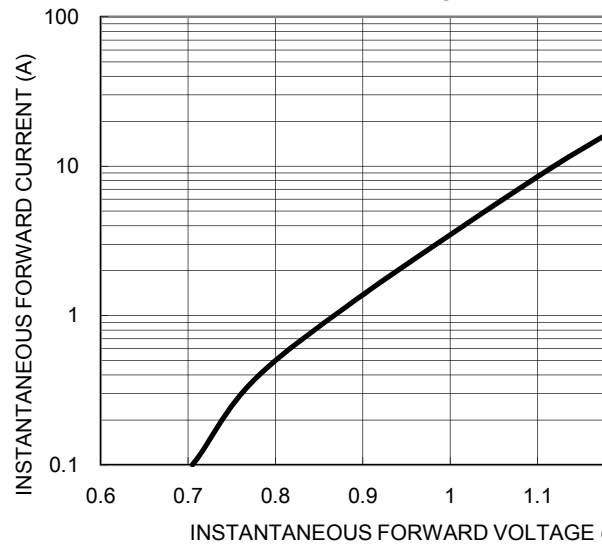
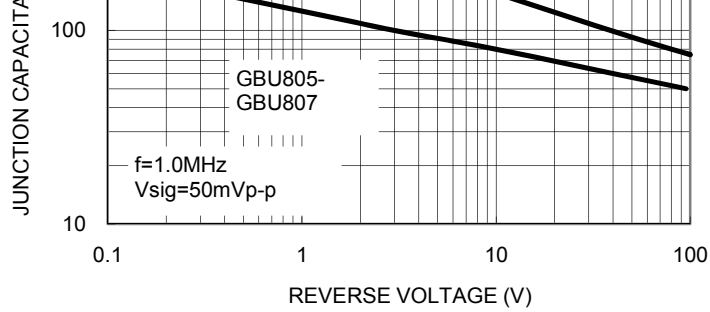


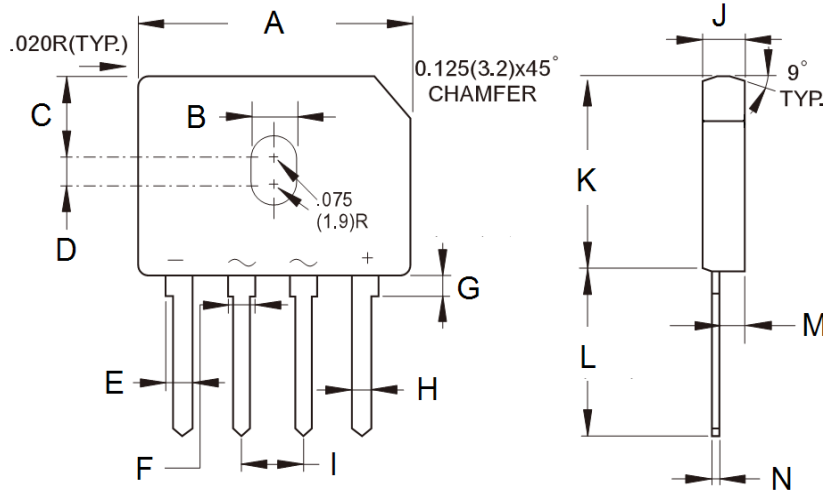
FIG. 4- TYPICAL FORWARD CHARACTERISTICS PER LEG





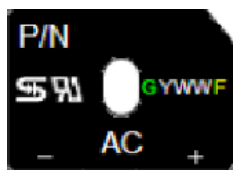
PACKAGE OUTLINE DIMENSIONS

GBU



DIM.	Unit (mm)		Unit (in)	
	Min	Max	Min	Max
A	21.80	22.30	0.858	0.878
B	3.50	4.10	0.138	0.161
C	7.40	7.90	0.291	0.311
D	1.65	2.16	0.065	0.085
E	2.16	2.54	0.085	0.100
F	1.65	2.03	0.065	0.080
G	1.52	2.03	0.060	0.080
H	1.02	1.27	0.040	0.050
I	4.83	5.33	0.190	0.210
J	3.30	3.56	0.130	0.140
K	18.30	18.80	0.720	0.740
L	17.50	18.00	0.689	0.709
M	1.90	2.16	0.075	0.085
N	0.46	0.56	0.018	0.022

MARKING DIAGRAM



P/N = Specific Device Code
 G = Green Compound
 YW = Date Code
 F = Factory Code

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