- OL Necognized i lie # L-320243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition





MECHANICAL DATA

Case: GBU

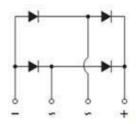
Molding compound, UL flammability classification rating 94V-0

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	GBU	GBU	GBU	GBU	GBU
			401	402	403	404	405	406
Maximum repetitive peak reverse voltage		V_{RRM}	50	100	200	400	0 600 800	
Maximum RMS voltage		V_{RMS}	35	70	140	280	420	560
Maximum DC blocking voltage		V_{DC}	50	100	200	400	600	800
laximum average forward rectified current		I _{F(AV)}	4					
Peak forward surge current,	$T_J = 25^{\circ}C$	I _{FSM}	150 80					
8.3 ms single half sine-wave	T _J = 125°C							
Peak forward surge current,	$T_J = 25^{\circ}C$	I _{FSM}	280 260					
1.0 ms single half sine-wave	T _J = 125°C							
Rating of fusing (t<8.3ms)	f fusing (t<8.3ms) I ² t 93							
Maximum Instantaneous Forward Voltage (Note 1) I_F = 2 A I_F = 4 A		V _F						
			1.0					
			1.1					
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C		I _R	5					
			500					
Typical junction capacitance per leg (Note	2)	Cj 100		45				
Typical thermal resistance		$R_{ heta JC}$	4					
		$R_{\theta JA}$	20					
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

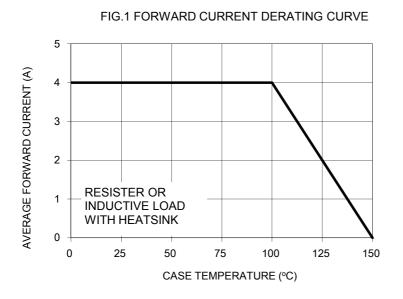
Note 2: Measured at 1MHz and applied Reverse bias of 4.0V DC

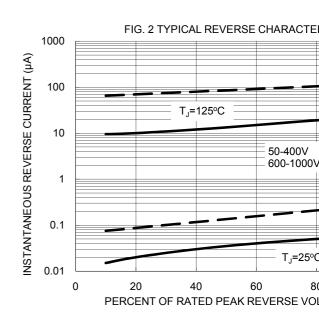
Note 1: "x" defines voltage from 50V (GBU401) to 1000V (GBU407)

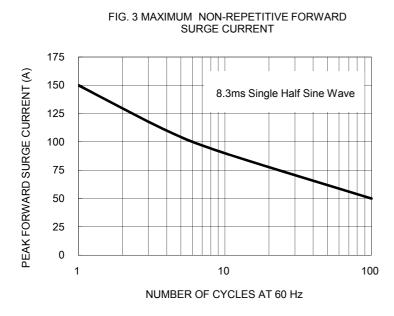
XAMPLE						
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
GBU406 C2	GBU406	C2				
GBU406 C2G	GBU406	C2	G	Green compoi		

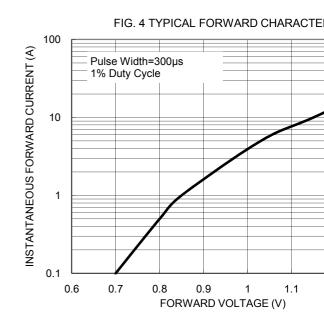
RATINGS AND CHARACTERISTICS CURVES

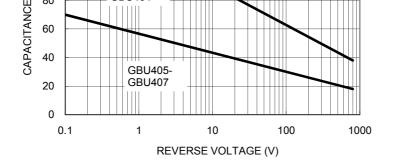
(T_A=25°C unless otherwise noted)





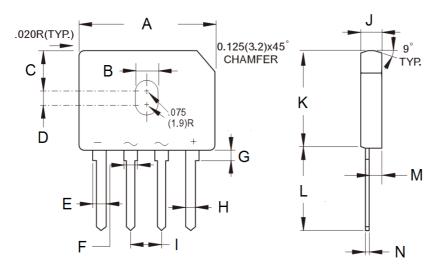






PACKAGE OUTLINE DIMENSIONS

GBU



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Ma		
Α	21.80	22.30	0.858	0.87		
В	3.50	4.10	0.138	0.16		
С	7.40	7.90	0.291	0.31		
D	1.65	2.16	0.065	0.08		
E	2.16	2.54	0.085	0.10		
F	1.65	2.03	0.065	0.08		
G	1.52	2.03	0.060	0.08		
Н	1.02	1.27	0.040	0.05		
I	4.83	5.33	0.190	0.21		
J	3.30	3.56	0.130	0.14		
K	18.30	18.80	0.720	0.74		
L	17.50	18.00	0.689	0.70		
М	1.90	2.16	0.075	0.08		
N	0.46	0.56	0.018	0.02		

MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound

YW = Date Code F = Factory Code

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