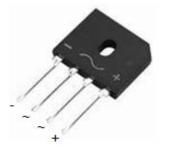


Glass Passivated Single-Phase Bridge Rectifier

FEATURES

- Ideal for printed circuit board
- High case dielectric strength of 1500 VRMS
- High surge current capability
- 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)

DADAMETED	CVMDOL	GBU	GBU	GBU	GBU	GBU	GBU	GBU	UNIT
PARAMETER	SYMBOL	401	402	403	404	405	406	407	
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	I _{F(AV)}	4						Α	
Peak forward surge current, $T_J = 25$ 8.3 ms single half sine-wave $T_J = 12$	ECM	150 80					А		
Peak forward surge current, $T_J = 25$ 1.0 ms single half sine-wave $T_J = 12$	FCM	280 260				Α			
Rating of fusing (t<8.3ms)	l ² t				93				A ² s
Maximum Instantaneous Forward Voltage (Note 1) $I_F = 2 A$ $I_F = 4 A$	V _F	1.0 1.1					V		
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R	5 500						μΑ	
Typical junction capacitance per leg (Note 2)	Cj	100 45				pF			
Typical thermal resistance	$R_{ heta JC} \ R_{ heta JA}$	4 20						°C/W	
Operating junction temperature range	T _J	- 55 to +150						οС	
Storage temperature range	T _{STG}	- 55 to +150					οС		

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

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



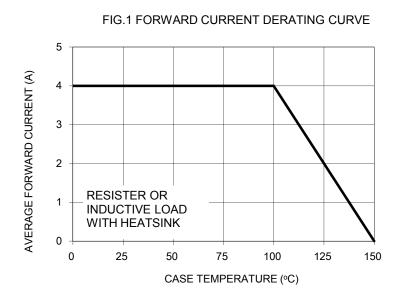
ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING	
		SUFFIX			
ODLIAG	C2			20 / Tube	
GBU40x (Note 1)	D2	G	GBU	20 / Tube	
(14016-1)	X0			Forming	

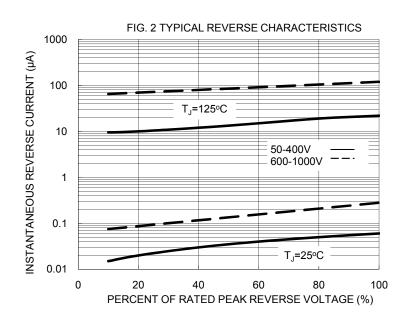
Note 1: "x" defines voltage from 50V (GBU401) to 1000V (GBU407)

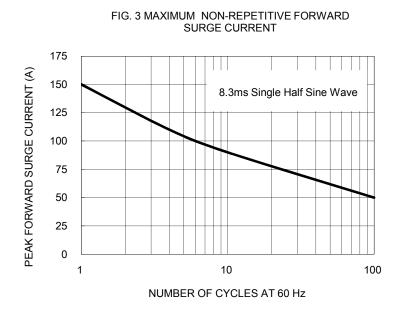
EXAMPLE						
PREFERRED P/N PART NO		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
GBU406 C2	GBU406	C2				
GBU406 C2G	GBU406	C2	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







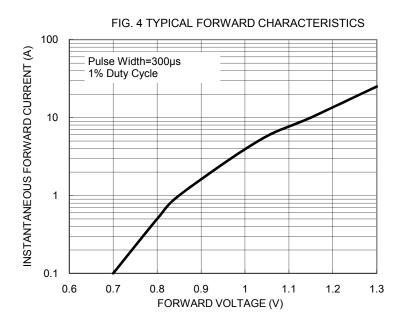
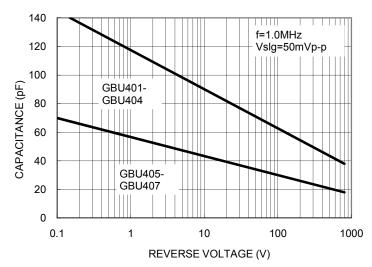


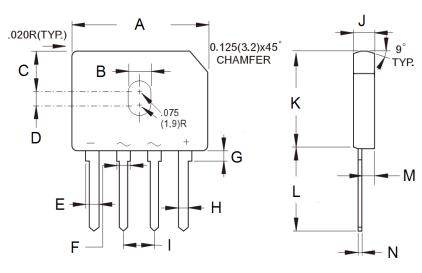


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS

GBU



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min Max		Min	Max	
Α	21.80	22.30	0.858	0.878	
В	3.50	4.10	0.138	0.161	
С	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	
Н	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	
М	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

Document Number: DS_D1409015





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