

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

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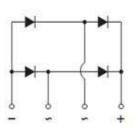


MECHANICAL DATA

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)



PARAMETER		SYMBOL	GBU	GBU	GBU	GBU	GBU	GBU	GBU	
			401	402	403	404	405	406	407	UNIT
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							А
Peak forward surge current, 8.3 ms single half sine-wave	T _J = 25°C T _J = 125°C	I _{FSM}	150 80					А		
Peak forward surge current, 1.0 ms single half sine-wave	T _J = 25°C T _J = 125°C	I _{FSM}	280 260					А		
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						μA	
Typical junction capacitance per leg (Note 2)		Cj	100 45			pF				
Typical thermal resistance		R _{θJC} R _{θJA}	4 20						^o C/W	
Operating junction temperature range		TJ	- 55 to +150						°C	
Storage temperature range		T _{STG}	- 55 to +150						°C	

Note 1: Pulse test with PW=300 $\mu s,$ 1% duty cycle

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



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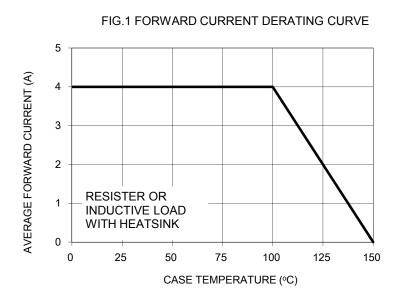
ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING		
001140	C2	G	GBU	20 / Tube		
GBU40x (Note 1)	D2			20 / Tube		
	X0			Forming		

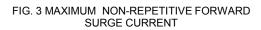
Note 1: "x" defines voltage from 50V (GBU401) to 1000V (GBU407)

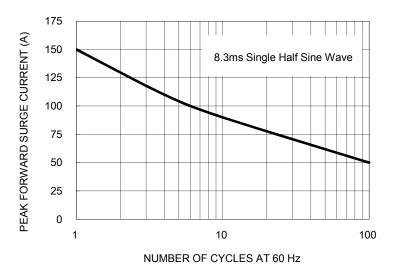
EXAMPLE							
PREFERRED P/N PART NO		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION			
GBU406 C2	GBU406	C2					
GBU406 C2G	GBU406	C2	G	Green compound			

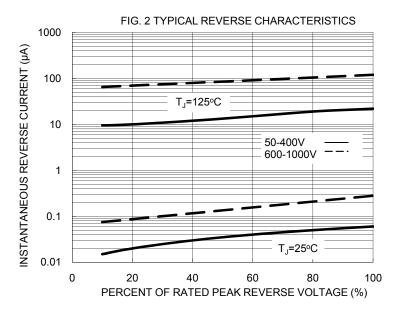
RATINGS AND CHARACTERISTICS CURVES

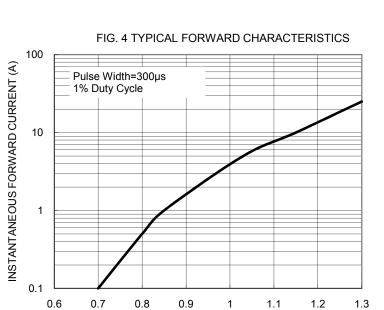
(T_A=25°C unless otherwise noted)







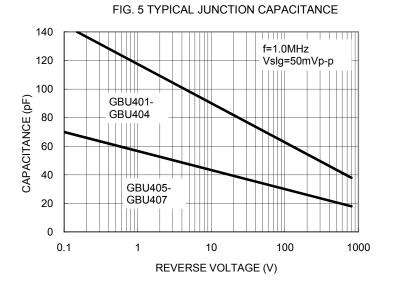




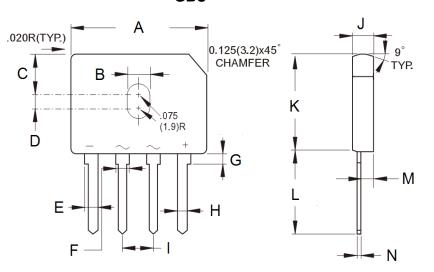
FORWARD VOLTAGE (V)

Document Number: DS_D1409015









DIM.	Unit	(mm)	Unit (inch)		
	Min Max		Min	Max	
А	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	
Е	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	
К	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	
Ν	0.46	0.56	0.018	0.022	

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound
- = Date Code
- = Factory Code



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