



Glass Passivated Single-Phase Bridge Rectifier

FEATURES

- Ideal for printed circuit board
- High case dielectric strength of 1500 VRMS
- High surge current capability
- Typical IR less than 0.1µA
- 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 Base P/N with suffix "G" on packing code - halogen-free **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Polarity: As marked

Weight: 4 g (approximately)

DADAMETED		GBU	GBU GBU GBU GBU G				GBU	GBU GBU	T
PARAMETER	SYMBOL	601	602	603	604	605	606	607	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)}				6				Α
Peak forward surge current, 8.3 ms single half sine-wave	I _{FSM}				175				А
Rating of fusing (t<8.3ms)	l ² t				127				A^2s
Maximum Instantaneous Forward Voltage (Note 1) $I_F = 3 A$ $I_F = 6 A$	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		2	11			94		pF
Typical thermal resistance	R _{θjC} R _{θjA}	2 21			°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

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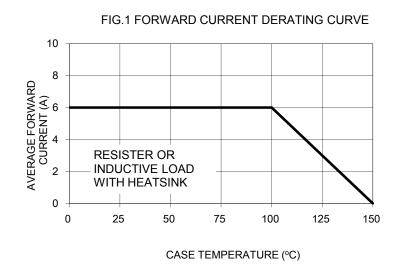
ORDERING INFORMATION							
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING			
GBU60x (Note 1)	C2	Suffix "G"	GBU	25 / Tube			

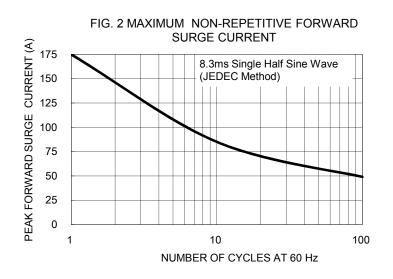
Note 1: "x" defines voltage from 50V (GBU601) to 1000V (GBU607)

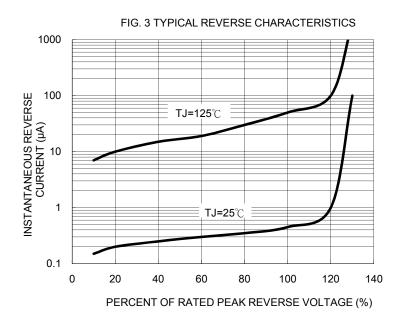
EXAMPLE							
PREFERRED P/N PART		PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
GBU606 C2	GBU606	C2					
GBU606 C2G	GBU606	C2	G	Green compound			

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







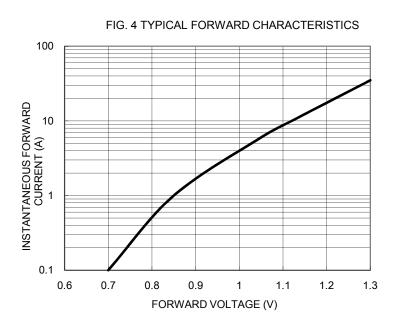
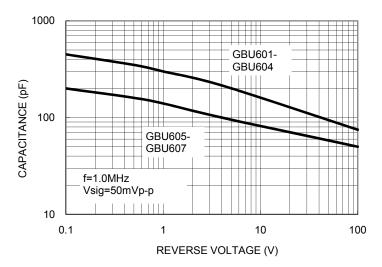
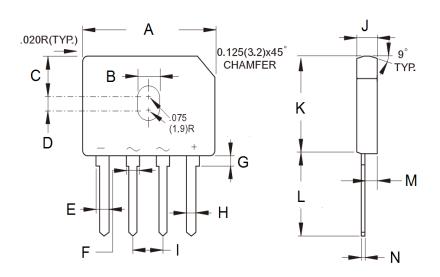




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



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	
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	
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

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