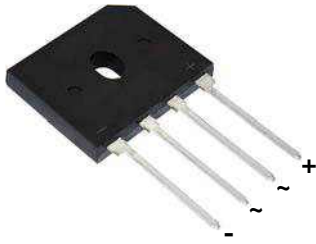
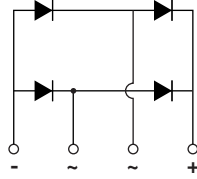


Glass Passivated Single-Phase Bridge Rectifier



Case Style GBU



Case Style GBU

FEATURES

- UL recognition file number E54214
- Ideal for printed circuit boards
- High surge current capability
- High case dielectric strength of 1500 V_{RMS}
- Solder dip 275 °C max. 10 s, per JESD 22-B106
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE

TYPICAL APPLICATIONS

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications.

MECHANICAL DATA

Case: GBU

Molding compound meets UL 94 V-0 flammability rating Base P/N-M3 - halogen-free, RoHS-compliant, and commercial grade

Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD 22-B102

M3 suffix meets JESD 201 class 1A whisker test

Polarity: As marked on body

Mounting Torque: 10 cm-kg (8.8 inches-lbs) max.

Recommended Torque: 5.7 cm-kg (5 inches-lbs)

PRIMARY CHARACTERISTICS	
Package	GBU
I _{F(AV)}	4 A
V _{RRM}	200 V, 600 V, 800 V
I _{FSM}	80 A
I _R	5 μA
V _F at I _F = 2.0 A	1.0 V
T _J max.	150 °C
Diode variations	In-line

MAXIMUM RATINGS (T _A = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	G3SBA20	G3SBA60	G3SBA80	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	200	600	800	V
Maximum RMS voltage	V _{RWM}	140	420	560	V
Maximum DC blocking voltage	V _{DC}	200	600	800	V
Maximum average forward rectified output current at	I _{F(AV)}	T _C = 100 °C ⁽¹⁾			A
		T _A = 25 °C ⁽²⁾			
Peak forward surge current single sine-wave superimposed on rated load	I _{FSM}	80			A
Rating for fusing (t < 8.3 ms)	I ² t	27			A ² s
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150			°C

Notes

⁽¹⁾ Unit case mounted on aluminum plate heatsink

⁽²⁾ Units mounted on PCB with 0.5" x 0.5" (12 mm x 12 mm) copper pads and 0.375" (9.5 mm) lead length

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	TEST CONDITIONS	SYMBOL	G3SBA20	G3SBA60	G3SBA80	UNIT
Maximum instantaneous forward voltage per diode	2.0 A	V _F	1.00			V
Maximum DC reverse current at rated DC blocking voltage per diode	T _J = 25 °C	I _R	5.0			μA
	T _J = 125 °C		400			



THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	G3SBA20	G3SBA60	G3SBA80	UNIT
Typical thermal resistance	R _{θJA} ⁽²⁾	26			°C/W
	R _{θJC} ⁽¹⁾	5.0			

Notes

- (1) Unit case mounted on aluminum plate heatsink
- (2) Units mounted on PCB with 0.5" x 0.5" (12 mm x 12 mm) copper pads and 0.375" (9.5 mm) lead length

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
G3SBA60-M3/45	3.404	45	20	Tube
G3SBA60-M3/51	3.404	51	250	Paper tray

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

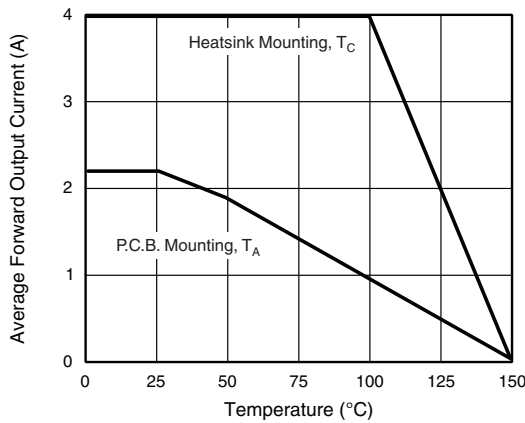


Fig. 1 - Derating Curve Output Rectified Current

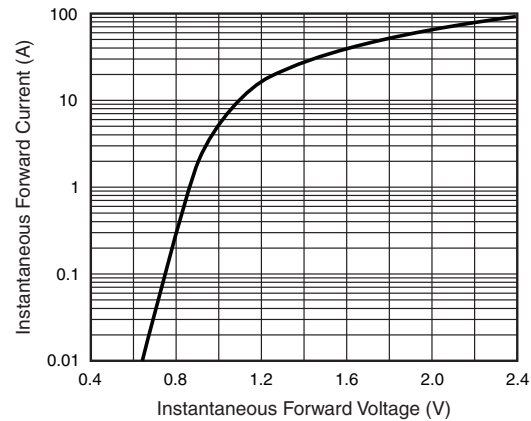


Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode

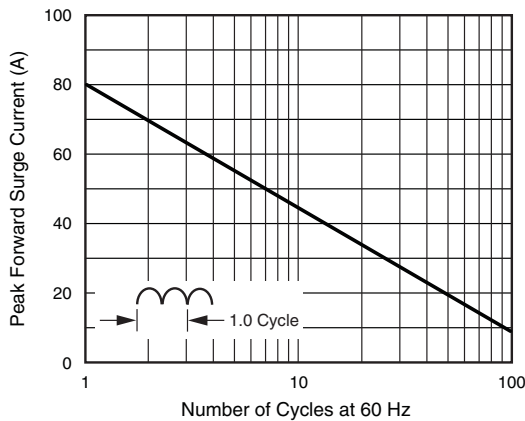


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

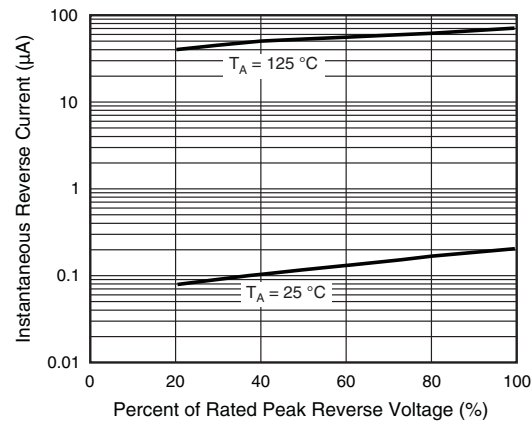


Fig. 4 - Typical Reverse Leakage Characteristics Per Diode

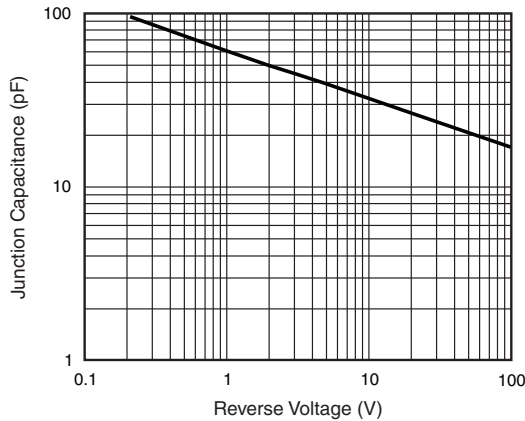


Fig. 5 - Typical Junction Capacitance Per Diode

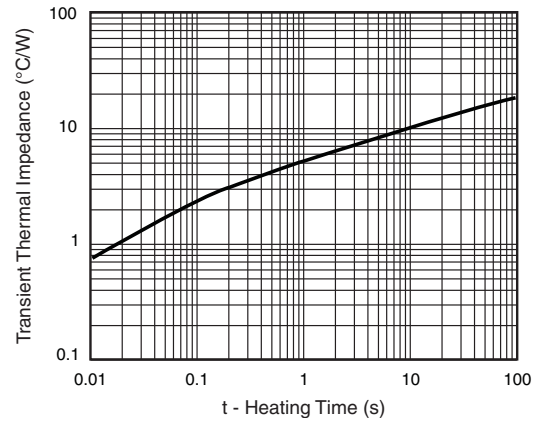
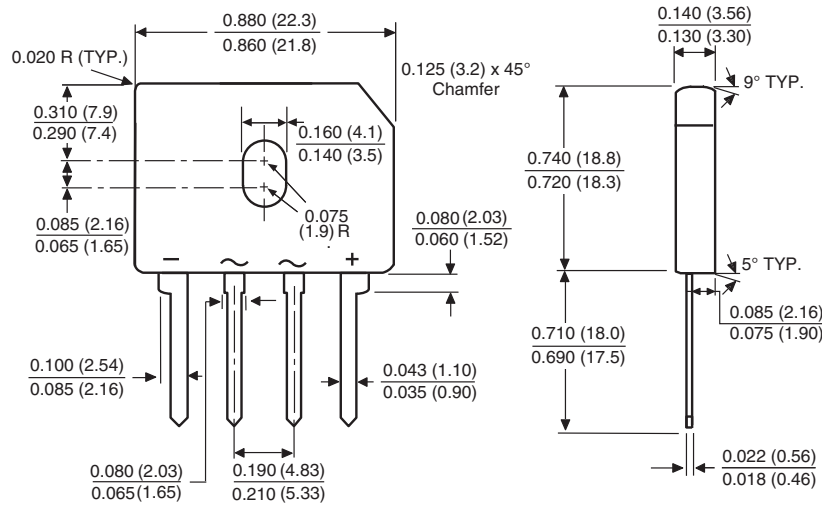


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

Case Style GBU



Polarity shown on front side of case, positive lead by beveled corner



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