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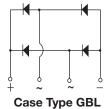


G2SBA20, G2SBA60, G2SBA80

Vishay General Semiconductor

Glass Passivated Single-Phase Bridge Rectifier





FEATURES







Typical I_R less than 0.1 μA

· High case dielectric strength

· Material categorization: For definitions of compliance



 Solder 	dip 275 °	°C max.	10 s, per	JESD	22-B10	3
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please see www.vishay.com/doc?99912

TYPICAL APPLICATIONS

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

MECHANICAL DATA

Case: GBL

Molding compound meets UL 94 V-0 flammability rating Base P/N-E3 - RoHS-compliant, commercial grade

Terminals: Matte tin plated leads, solderable per

J-STD-002 and JESD 22-B102

E3 suffix meets JESD 201 class 1A whisker test

Polarity: As marked on body

PRIMARY CHARACTERISTICS					
Package	GBL				
I _{F(AV)}	1.5 A				
V_{RRM}	200 V, 600 V, 800 V				
I _{FSM}	60 A				
I _R	5 μΑ				
V_F at $I_F = 0.75 \text{ V}$	1.0 V				
T _J max.	150 °C				
Diode variations	In-Line				
Diode variations	III-LIIIE				

MAXIMUM RATINGS (T _A = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	G2SBA20	G2SBA60	G2SBA80	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	200	600	800	V
Maximum RMS voltage	V_{RMS}	140	420	560	V
Maximum DC blocking voltage	V_{DC}	200	600	800	V
Maximum average forward rectified output current at $T_A = 25\ ^{\circ}\text{C}$	I _{F(AV)}	1.5 A		А	
Peak forward surge current single sine-wave superimposed on rated load	I _{FSM}	60 A		А	
Rating for fusing (t < 8.3 ms)	I ² t	15 A ² s		A ² s	
Operating junction and storage temperature range	g junction and storage temperature range T _J , T _{STG} - 55 to + 150 °C				°C

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	TEST CONDITIONS	SYMBOL	G2SBA20	G2SBA60	G2SBA80	UNIT
Maximum instantaneous forward voltage drop per diode	0.75 A	V _F	1.00		V	
Maximum DC reverse current at	T _A = 25 °C	I_		5.0		
rated DC blocking voltage per diode	T _A = 125 °C	IR	300		μΑ	



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THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	G2SBA20 G2SBA60 G2SB		G2SBA80	UNIT	
Typical thermal resistance	$R_{\theta JA}$	40			°C/W	
Typical trieffial resistance	$R_{ heta JC}$	12				

Note

Unit 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			
G2SBA60-E3/45	2.017	45	20	Tube			
G2SBA60-E3/51	2.017	51	400	Anti-static PVC tray			

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

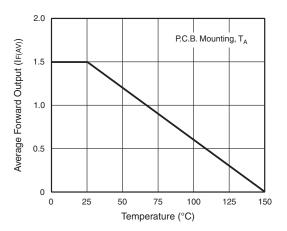


Fig. 1 - Derating Curve Output Rectified Current

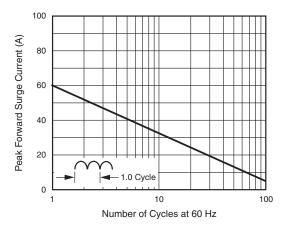


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

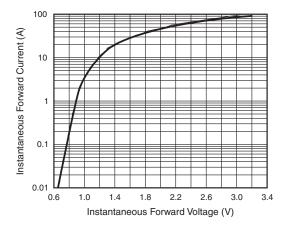


Fig. 3 - Typical Forward Characteristics Per Diode

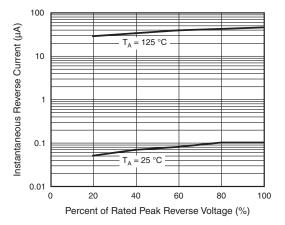


Fig. 4 - Typical Reverse Characteristics Per Diode

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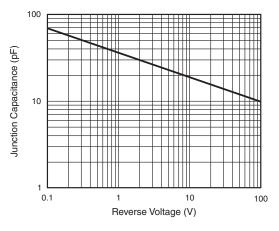


Fig. 5 - Typical Junction Capacitance Per Diode

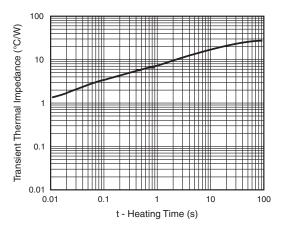
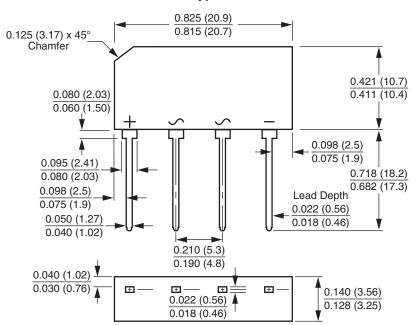


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

Case Type GBL



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



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