

Glass Passivated Single-Phase Bridge Rectifier

FEATURES

- Ideal for printed circuit board
- High case dielectric strength
- 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



GBL

10

500

10

47

- 55 to +150

- 55 to +150



ROHS

MECHANICAL DATA

Case: GBL

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

T_J=25 °C

T_J=125 °C

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Polarity: As marked

Weight: 2 g (approximately)

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MAXIMUM RATINGS AND ELECTRICAL CH	HARACTE	RISTIC	CS (T _A =	25°C un	less oth	erwise n	oted)	
PARAMETER	SYMBOL	D2SB	D2SB	D2SB	D2SB	D2SB	D2SB	UNIT
PARAIVIETER		05	10	20	40	60	80	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	V
Maximum average forward rectified current	I _{F(AV)}	2			Α			
Peak forward surge current, 8.3 ms single half sinewave superimposed on rated load	I _{FSM}	80				А		
Rating of fusing (t<8.3ms)	l ² t	26				A ² s		
Maximum instantaneous forward voltage (Note 1) I_F = 2 A	V _F			1	.1			V

 I_R

 $\overline{R_{\theta jL}}$

 $R_{\theta jA}$

 T_J

 T_{STG}

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

Maximum reverse current @ rated VR

Operating junction temperature range

Typical thermal resistance

Storage temperature range

μΑ

^OC/W

 $^{\circ}\text{C}$

 $^{\circ}C$



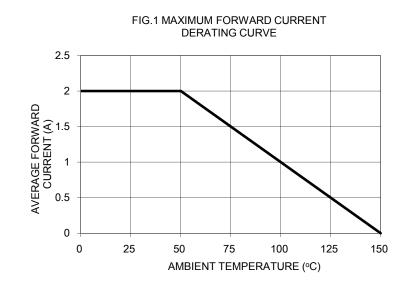
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND	EN COMPOUND PACKAGE PACK			
		CODE				
DOOD	C2		GBL	25 / Tube		
D2SBxx (Note 1)	X0	Suffix "G"	GBL	25 / Tube / Forming		
(14010-1)	D2		GBL	25 / Tube		

Note 1: "xx" defines voltage from 50V (D2SB05) to 800V (D2SB80)

EXAMPLE						
PREFERRED P/N PART NO. PACKING CODE		PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
D2SB80 C2	D2SB80	C2				
D2SB80 C2G	D2SB80	C2	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



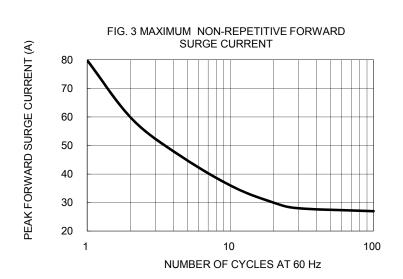


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

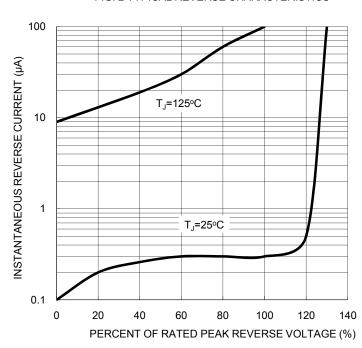
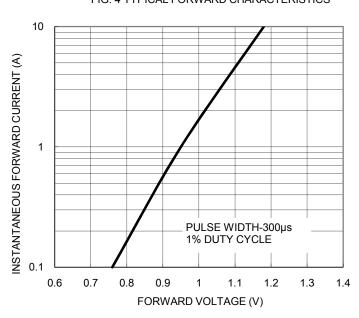
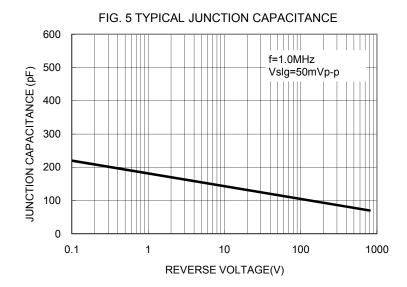


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

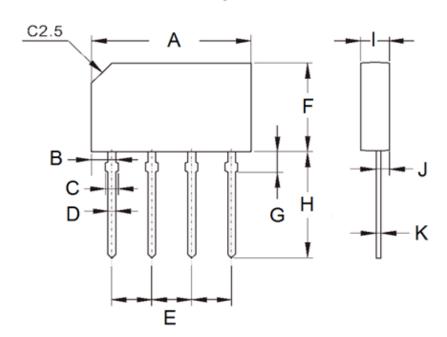






PACKAGE OUTLINE DIMENSIONS

GBL



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	19.70	20.30	0.776	0.799	
В	2.30	2.70	0.091	0.106	
С	1.30	2.00	0.051	0.079	
D	0.90	1.10	0.035	0.043	
Е	4.80	5.20	0.189	0.205	
F	10.70	11.30	0.421	0.445	
G	2.30	2.70	0.091	0.106	
Н	13.00	14.00	0.512	0.551	
I	3.30	3.70	0.130	0.146	
J	0.80	1.20	0.031	0.047	
K	0.40	0.60	0.016	0.024	

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound YWW = Date Code

F = Factory Code





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