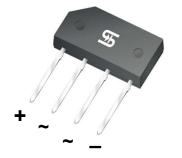


2A, 50V - 800V Glass Passivated Single-Phase Bridge Rectifiers

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







MECHANICAL DATA

Case: GBL

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

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

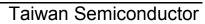
Meet JESD 201 class 2 whisker test

Polarity: As marked **Weight:** 2 g (approximately)

GBL

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
	SYMBOL	D2SB	D2SB	D2SB	D2SB	D2SB	D2SB	UNIT
PARAMETER		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^2s	
Maximum instantaneous forward voltage (Note 1) I_F = 2 A	V _F	1.1				٧		
Maximum reverse current @ rated V _R T 105°C	ı	10						
T _J =125°C	I _R	500					μA	
Typical thermal resistance	$R_{\theta JL}$	10					°C/W	
Typical incimal resistance	$R_{\theta JA}$	47						
Operating junction temperature range	T_J	- 55 to +150					°C	
Storage temperature range	T _{STG}	- 55 to +150				°C		

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





ORDERING INFORMATION						
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING	
D2SBxx (Note 1)	Н	C2		GBL	25 / Tube	
		X0	G	GBL	25 / Tube / Forming	
		D2		GBL	25 / Tube	

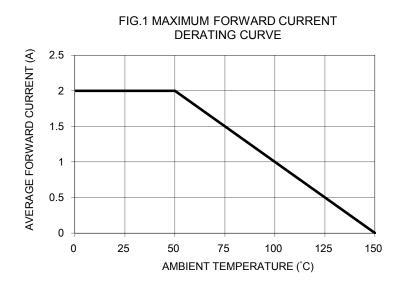
Note 1: "xx" defines voltage from 50V (D2SB05) to 800V (D2SB80)

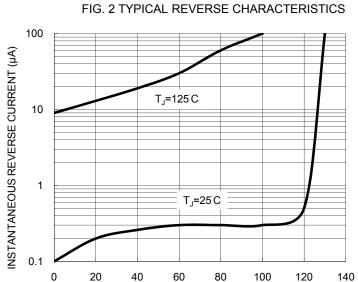
^{*:} Optional available

EXAMPLE						
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
D2SB80HC2G	D2SB80	Н	C2	G	AEC-Q101 qualified Green compound	

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

SURGE CURRENT

80

70

8.3mS Single Half Sine Wave

60

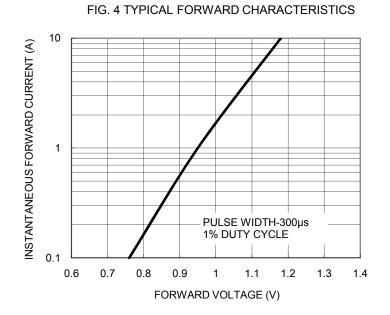
50

40

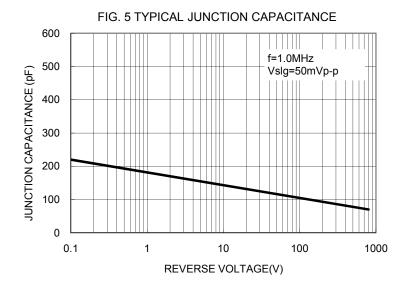
10

NUMBER OF CYCLES AT 60 Hz

FIG. 3 MAXIMUM NON-REPETITIVE FORWARD

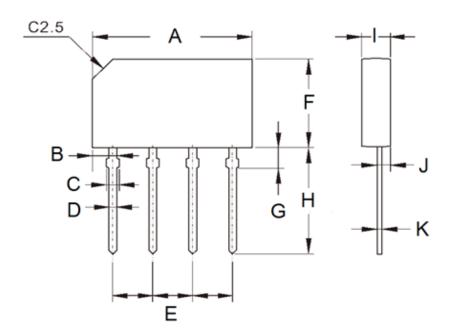






PACKAGE OUTLINE DIMENSIONS

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	
E	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	
Ī	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





Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D1408052 Version: J15

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bridge Rectifiers category:

Click to view products by Taiwan Semiconductor manufacturer:

Other Similar products are found below:

G3SBA60-E351 GBJ1504-BP GBU10B-BP GBU15J-BP GBU15K-BP GBU4A-BP GBU4D-BP GBU6B-E3/45 GSIB680-E3/45 DB101-BP DF10SA-E345 RMB2S RCG APT30DF100HJ APT60DF20HJ B2S-E3/80 BU1506-E351 BU15085S-E345 BU1508-E3/45 BU1510-E3/45 RS404GL-BP RS405GL-BP G3SBA20-E3/51 G5SBA20-E3/51 G5SBA60-E3/51 GBJ1502-BP GBL02-E3/51 GBL10-E3/45 GBU10J-BP GBU4J-BP GBU4K-BP GBU8B-E3/45 GBU8D-BP GBU8J-BP GSIB1520-E3/45 MB1510 MB352W MB6M-G B2M-E3/45 B40C7000A B500C7000A MP5010W-BP MP501W-BP MP502-BP BR1005-BP BR101-BP BU1006-E3/45 BU12065S-E3/45 BU1508-E3/51 BU2006-E3/45 BU2008-E3/45 BU2008-E3/45