

1.5A, 50V - 1400V Glass Passivated Bridge Rectifiers

FEATURES

- Ideal for automated placement
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- UL Recognized File # E-326854
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



DBLS





MECHANICAL DATA

Case: Molded plastic body

Molding compound, UL flammability classification rating 94V-0

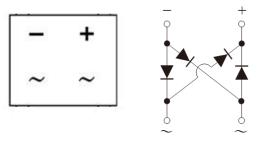
Moisture sensitivity level: level 1, per J-STD-020 Part no. with suffix "H" means AEC-Q101 qualified

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:** Polarity as marked on the body

Weight: 0.36 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)											
PARAMETER	SYMBOL	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	UNIT
PARAIVIETER	STIVIBOL	151G	152G	153G	154G	155G	156G	157G	158G	159G	CIVIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	1200	1400	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	840	980	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	1200	1400	V
Maximum average forward rectified current	I _{F(AV)}					1.5					Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}					50					Α
Rating for fusing (t<8.3ms)	I ² t					10.3					A^2s
Maximum instantaneous forward voltage (Note 1) I_F = 1.5 A	V _F				1.1				1.	25	٧
Maximum reverse current @ rated V_R T_J =25°C T_J =125°C	I _R					2 500					μΑ
Typical thermal resistance	$R_{ heta JL} \ R_{ heta JA}$					15 40					°C/W
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	
DBLS15xG	Н	C1	G	DBLS	50 / TUBE	
(Note 1)	(Note 1) RD		DBLS	1,500 / 13" Paper reel		

Note 1: "x" defines voltage from 50V (DBLS151G) to 1400V (DBLS159G)

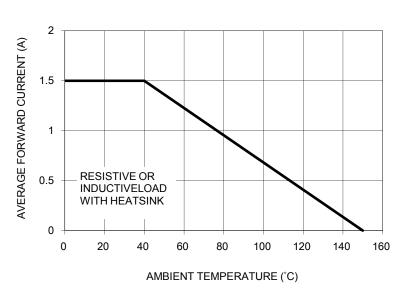
^{*:} Optional available

EXAMPLE						
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
DBLS157GHRDG	DBLS157G	Н	RD	G	AEC-Q101 qualified Green compound	

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





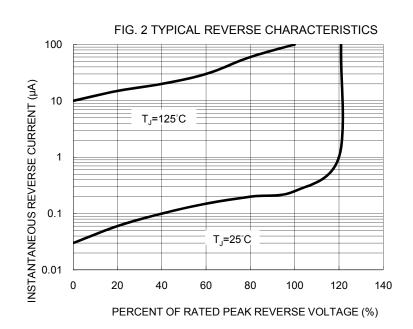
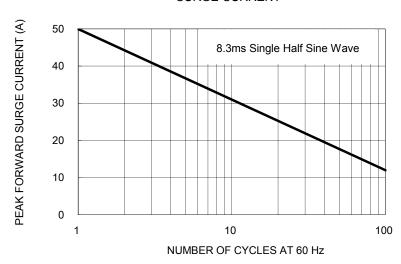


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



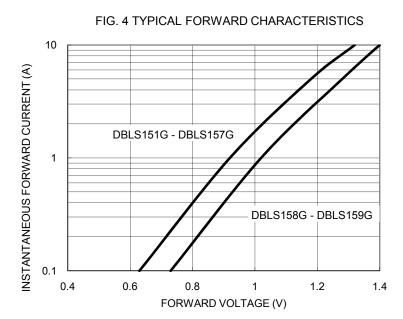
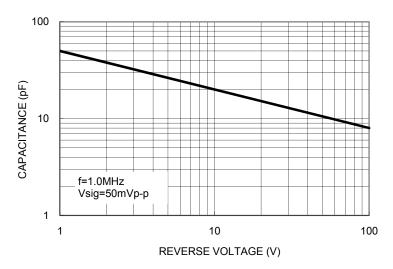
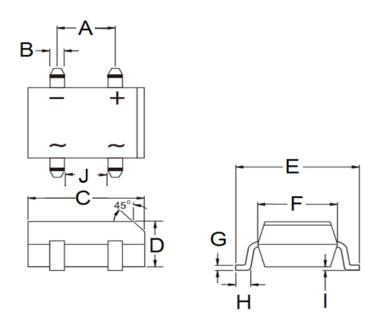




FIG. 5 TYPICAL JUNCTION CAPACITANCE

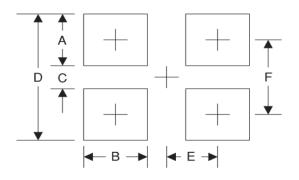


PACKAGE OUTLINE DIMENSIONS DBLS



DIM.	Unit	(mm)	Unit (inch)			
DIN.	Min	Max	Min	Max		
Α	5.00	5.20	0.197	0.205		
В	1.02	1.20	0.040	0.047		
С	8.13	8.51	0.320	0.335		
D	2.40	2.60	0.094	0.102		
E	9.80	10.30	0.386	0.406		
F	6.20	6.50	0.244	0.256		
G	0.22	0.33	0.009	0.013		
Н	1.02	1.53	0.040	0.060		
I	0.076	0.33	0.003	0.013		
J	3.90	4.10	0.154	0.161		

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	2.3	0.091
В	1.3	0.051
С	6.9	0.272
D	11.5	0.453
Е	2.6	0.102
F	9.2	0.362

MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound

YW = Date Code

= 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_D1310042 Version: L15

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:

MB2510 MB252 MB356G MB358G GBJ1504-BP GBU15J-BP GBU15K-BP GBU4A-BP GBU6B-E3/45 GSIB680-E3/45 DB101-BP DF01 DF10SA-E345 KBPC50-10S RS405GL-BP G5SBA60-E3/51 GBU10J-BP GBU6M GBU8D-BP GBU8J-BP GSIB1520-E3/45 2KBB10 36MB140A TB102M MB1510 MB258 MB6M-G MB86 TL401G MDA920A2 TU602 TU810 MP501W-BP BR101-BP BR84DTP204 BU2008-E3/51 36MB100A KBPC10/15/2501WP KBPC25-02 VS-2KBB60 DF06SA-E345 DF1510S VS-40MT160PAPBF W02M GBL02-E3/45 GBU4G-BP GBJ2506-BP GBU6B-E3/51 GSIB15A80-E3/45 DB104-BP