

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
- Moisture sensitivity level: level 1, per J-STD-020
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

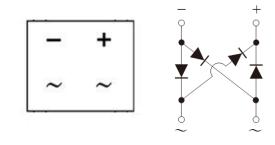
MECHANICAL DATA

Case: Molded plastic body

Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test **Polarity:** Polarity as marked on the body **Weight:** 0.36 g (approximately)







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A =25 $^{\circ}$ C unless otherwise noted)											
PARAMETER		DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	UNIT
PARAIVIETER	SYMBOL	201G	202G	203G	204G	205G	206G	207G	208G	209G	
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		50	100	200	400	600	800	1000	1200	1400	V
Maximum average forward rectified current		2						А			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load		50						A			
Rating for fusing (t<8.3ms)	l ² t					10.3					A ² s
Maximum instantaneous forward voltage (Note 1) $I_F = 2 A$	V _F	1.15 1.30					30	V			
Maximum DC reverse current $T_J=25 \degree$ $T_J=125\degree$ C I_R at rated DC blocking voltage $T_J=125\degree$ C		2 500						μA			
Typical thermal resistance	R _{θjL} R _{θjA}	15 40						°C/W			
Operating junction temperature range	TJ	- 55 to +150						°C			
Storage temperature range		- 55 to +150						°C			

Note 1: Pulse Test with PW=300µs,1% Duty Cycle



DBLS201G thru DBLS209G

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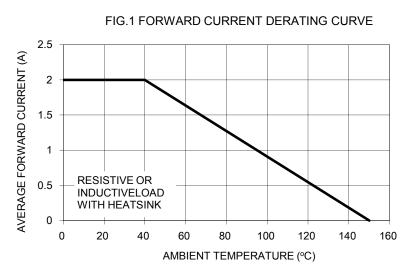
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
		CODE				
DBLS20xG	C1	Suffix "G"	DBLS	50 / TUBE		
(Note 1)	RD		DBLS	1,500 / 13" Paper reel		

Note 1: "x" defines voltage from 50V (DBLS201G) to 1400V (DBLS209G)

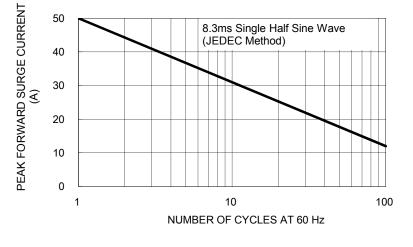
EXAMPLE					
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
DBLS207G RD	DBLS207G	RD			
DBLS207G RDG	DBLS207G	RD	G	Green compound	

RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^\circ\!\!\mathbb{C}$ unless otherwise noted)







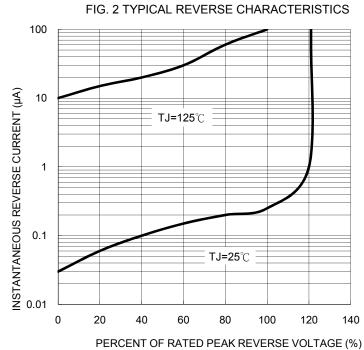


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

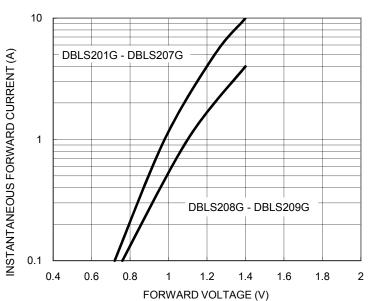
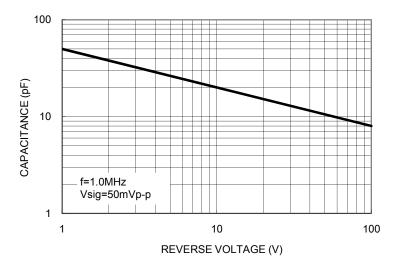
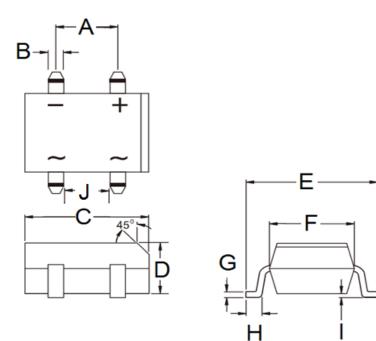




FIG. 5 TYPICAL JUNCTION CAPACITANCE

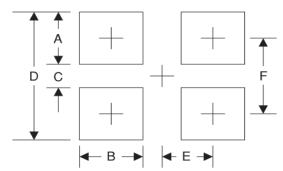


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
	Min	Max	Min	Max		
А	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		
	0.076	0.33	0.003	0.013		
J	3.90	4.10	0.154	0.161		

SUGGESTED PAD LAYOUT



P/N

YW

G

F

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

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound
- = Date Code
- = Factory Code



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