



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



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

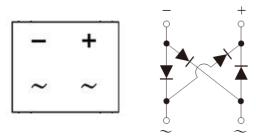
Weight: 0.36 g (approximately)



DBLS







MAXIMUM RATINGS AND ELECTRICAL CHAR	ACTERIST	ICS (T	_A =25°ℂ	unless	otherwi	se note	d)				
PARAMETER	SYMBOL	DBLS 201G		DBLS 203G						DBLS 209G	UNIT
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	I _{F(AV)}	2						Α			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load		50					Α				
Rating for fusing (t<8.3ms)	l ² t					10.3					A ² s
Maximum instantaneous forward voltage (Note 1) I _F = 2 A		1.15 1.30					30	V			
$\begin{array}{ll} \mbox{Maximum DC reverse current} & \mbox{T_J=25 $\%$} \\ \mbox{at rated DC blocking voltage} & \mbox{T_J=125 $\%$} \end{array}$	I _R	2 500					μΑ				
Typical thermal resistance	R _{θjL} R _{θjA}	15 40			°C/W						
Operating junction temperature range	T _J	T _J - 55 to +150		оС							
Storage temperature range		- 55 to +150					οС				

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

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Version: H13



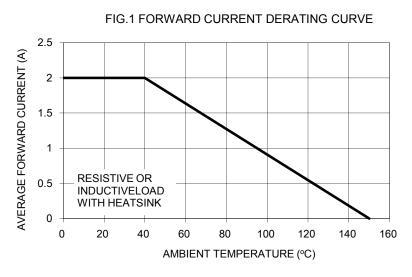
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
		CODE				
DBLS20xG	C1	Suffix "G"	DBLS	50 / TUBE		
(Note 1)	RD	Sullix G		1,500 / 13" Paper reel		

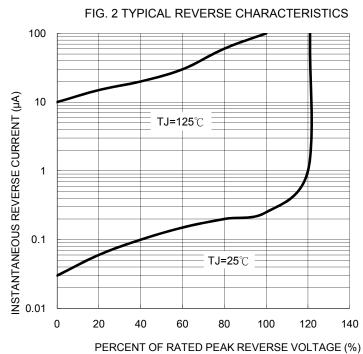
Note 1: "x" defines voltage from 50V (DBLS201G) to 1400V (DBLS209G)

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°C unless otherwise noted)





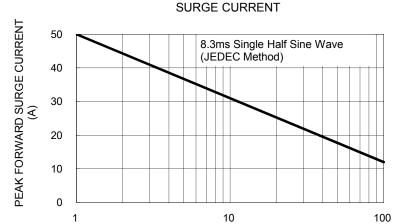


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD

10 NUMBER OF CYCLES AT 60 Hz

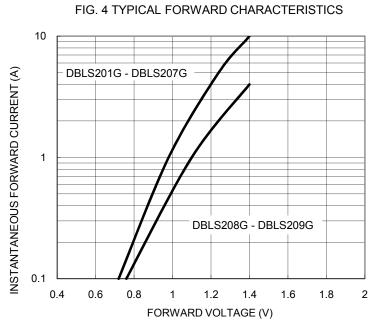
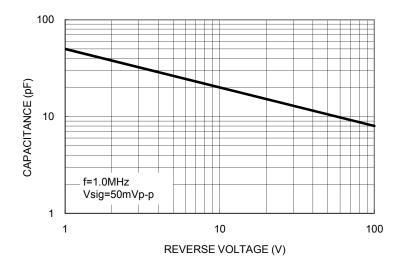
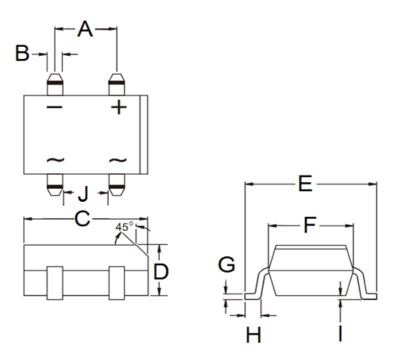




FIG. 5 TYPICAL JUNCTION CAPACITANCE

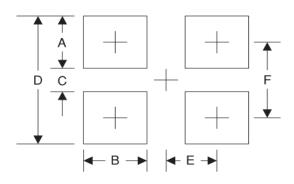


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	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		
Е	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		
Ī	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

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