

2A, 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

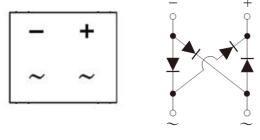
Moisture sensitivity level: level 1, per J-STD-020 Part no. with suffix "H" means AEC-Q101 qualified

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		DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	UNIT
PARAIVIE I ER	SYMBOL	201G	202G	203G	204G	205G	206G	207G	208G	209G	OINI I
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)}					2					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)	l ² t					10.3					A^2s
Maximum instantaneous forward voltage (Note 1) I _F = 2 A	V _F				1.15				1.3	30	V
$\begin{array}{c} & \text{T_J=}25^{\circ}\text{C}\\ \text{Maximum reverse current @ rated V_R} & \\ & \text{T_J=}125^{\circ}\text{C} \end{array}$	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	
DBLS20xG	Н	C1	G	DBLS	50 / TUBE	
(Note 1)	(Note 1) RD		G	DBLS	1,500 / 13" Paper reel	

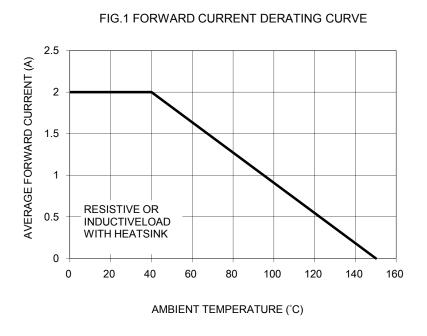
Note 1: "x" defines voltage from 50V (DBLS201G) to 1400V (DBLS209G)

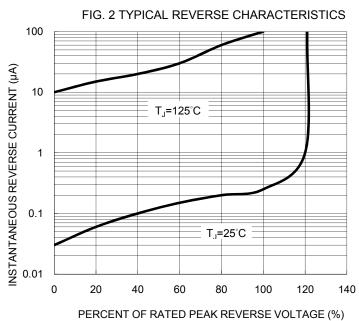
^{*:} Optional available

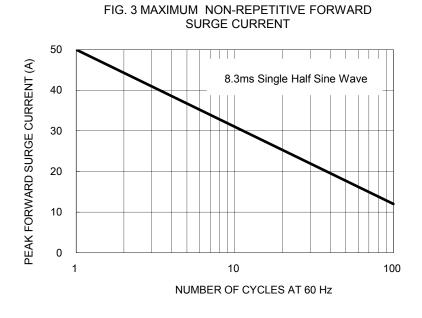
EXAMPLE						
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
DBLS207GHRDG	DBLS207G	Н	RD	G	AEC-Q101 qualified Green compound	

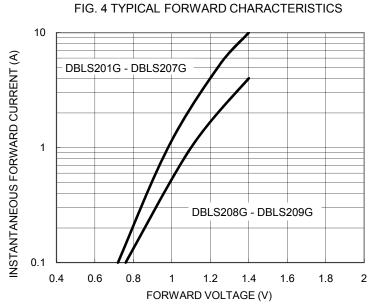
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





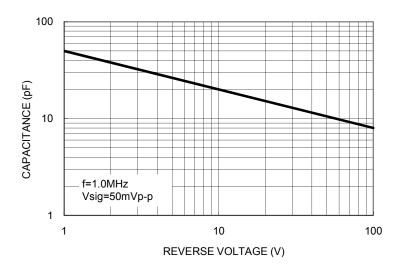




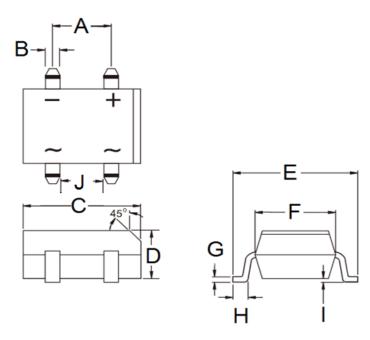
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FIG. 5 TYPICAL JUNCTION CAPACITANCE

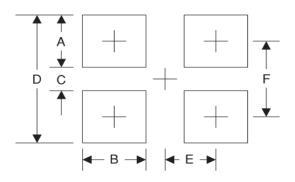


PACKAGE OUTLINE DIMENSIONS DBLS



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	
ı	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

F = Factory Code

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