

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

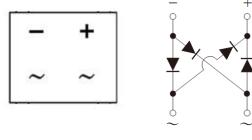
Moisture sensitivity level: level 1, per J-STD-020 Part no. with suffix "H" means AEC-Q101 qualified

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	SYMBOL	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	LUNII
PARAIVIETER	STIVIBUL	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	٧
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)	I ² t					10.3					A ² s
Maximum instantaneous forward voltage (Note 1) I_F = 2 A	V _F				1.15				1.	30	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=300 μ s,1% Duty Cycle



ORDERING INFORMATION					
PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING
	SUFFIX	CODE	SUFFIX ^(*)		
DBLS20xG	ш	C1	G	DBLS	50 / TUBE
(Note 1)	11	RD	G	DBLS	1,500 / 13" Paper reel

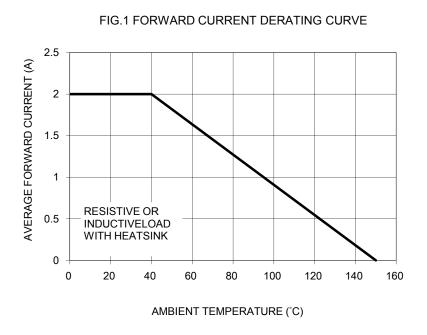
Note 1: "x" defines voltage from 50V (DBLS201G) to 1400V (DBLS209G)

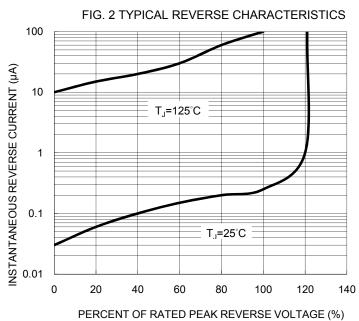
^{*:} Optional available

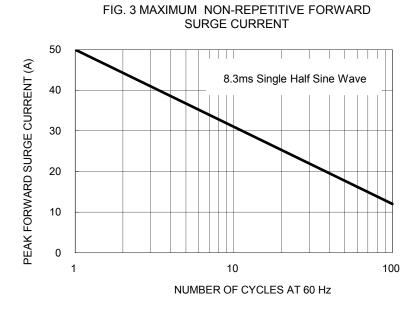
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
DBLS207GHRDG	DBLS207G	Н	RD	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







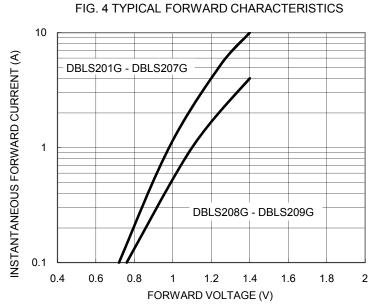
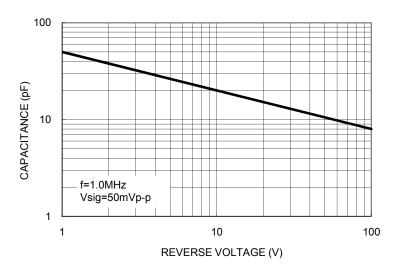


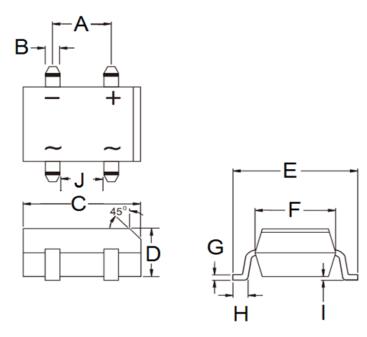


FIG. 5 TYPICAL JUNCTION CAPACITANCE



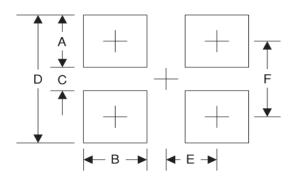
PACKAGE OUTLINE DIMENSIONS

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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