

# 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

### **MECHANICAL DATA**

Case: Molded plastic body

Maximum RMS voltage

I<sub>F</sub>= 2 A

Molding compound, UL flammability classification rating 94V-0 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: 0.38 g (approximately)



DBL

1.15

2

500

15

40

- 55 to +150

- 55 to +150

+





UNIT

V

V

V

A

А

A<sup>2</sup>s

V

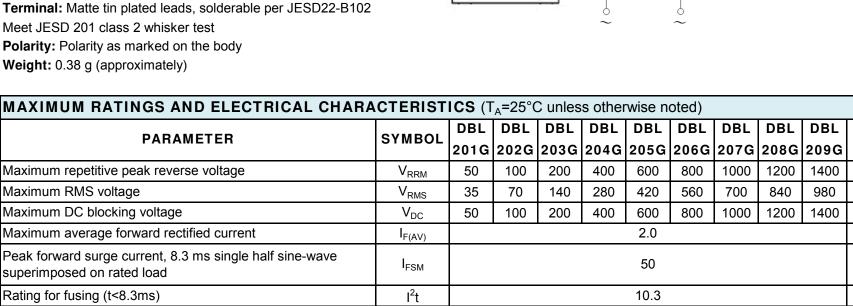
μA

°C/W

°C

°C

1.30



 $V_{F}$ 

 $I_R$ 

R<sub>e.II</sub>

 $R_{\theta JA}$ 

ТJ

T<sub>STG</sub>

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

Maximum instantaneous forward voltage (Note 1)

Maximum reverse current @ rated V<sub>R</sub>

Operating junction temperature range

Typical thermal resistance

TJ=25°C

T<sub>J</sub>=125°C



**Taiwan Semiconductor** 

ORDERING INFORMATION								
PART NO.	PACKING CODE	PACKING CODE	PACKING CODE SUFFIX <sup>(*)</sup>	PACKAGE	PACKING			
DBL20xG (Note 1)	Н	C1	G	DBL	50 / TUBE			

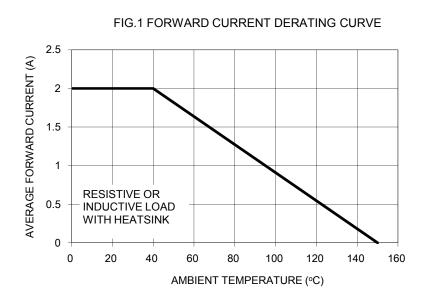
Note 1: "x" defines voltage from 50V (DBL201G) to 1400V (DBL209G)

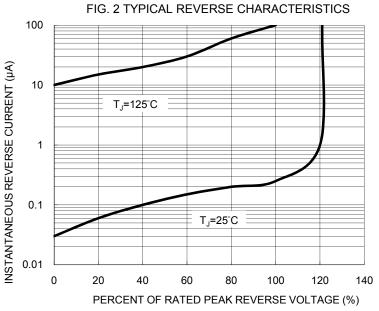
\*: Optional available

EXAMPLE								
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION			
DBL207GHC1G	DBL207G	Н	C1	G	AEC-Q101 qualified Green compound			

## **RATINGS AND CHARACTERISTICS CURVES**

 $(T_A=25^{\circ}C \text{ unless otherwise noted})$ 





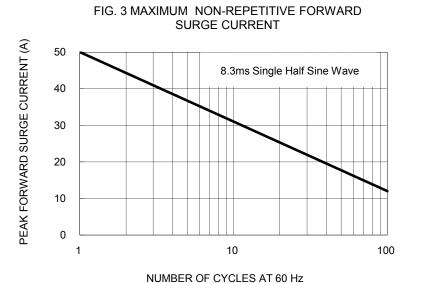


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

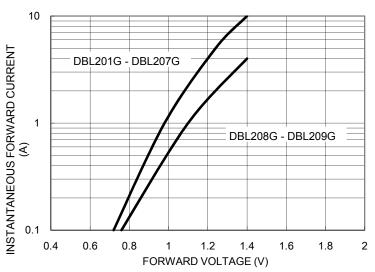
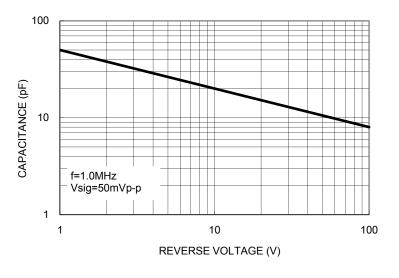
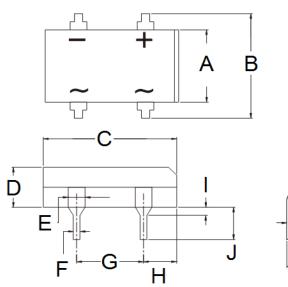




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS DBL

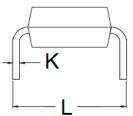


P/N

G

F

YW



DIM.	Unit	(mm)	Unit (inch)	
DIM.	Min	Max	Min	Max
А	6.20	6.50	0.244	0.256
В	7.24	8.00	0.285	0.315
С	8.12	8.51	0.320	0.335
D	2.40	2.60	0.094	0.102
Е	0.89	1.14	0.035	0.045
F	0.46	0.58	0.018	0.023
G	5.00	5.20	0.197	0.205
Н	1.39	1.90	0.055	0.075
I	1.27	2.03	0.050	0.080
J	3.81	4.69	0.150	0.185
К	0.22	0.33	0.009	0.013
L	7.60	8.90	0.299	0.350

# MARKING DIAGRAM



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



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