

# **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 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

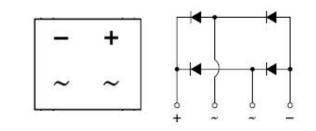
Weight: 0.29 g (approximately)

Weight: 0.38 g (approximately)





DBL



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T <sub>A</sub> =25° $_{ m C}$ unless otherwise noted)												
PARAMETER		DBL	DBL	DBL	DBL	DBL	DBL	DBL	DBL	DBL	UNIT	
PARAIVIETER	SYMBOL	201G	202G	203G	204G	205G	206G	207G	208G	209G		
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	1200	1400	V	
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	840	980	V	
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	1200	1400	V	
Maximum average forward rectified current	I <sub>F(AV)</sub>					2.0					А	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>		50			А						
Rating for fusing (t<8.3ms)	l <sup>2</sup> t	10.3				A <sup>2</sup> s						
Maximum instantaneous forward voltage (Note 1) I <sub>F</sub> = 2 A	V <sub>F</sub>	1.15 1.30			30	V						
Maximum DC reverse current $T_J=25 \degree$ Cat rated DC blocking voltage $T_J=125\degree$ C	I <sub>R</sub>	2 500				μA						
Typical thermal resistance	R <sub>θjL</sub> R <sub>θjA</sub>	15 40				<sup>o</sup> C/W						
Operating junction temperature range	Τ <sub>J</sub>	- 55 to +150				оС						
Storage temperature range	T <sub>STG</sub>	- 55 to +150				О <sup>О</sup>						

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



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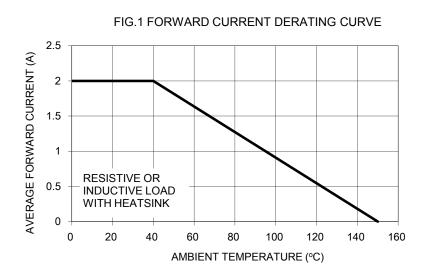
ORDERING INFORMATION							
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING			
		CODE					
DBL20xG (Note 1)	C1	Suffix "G"	DBL	50 / TUBE			

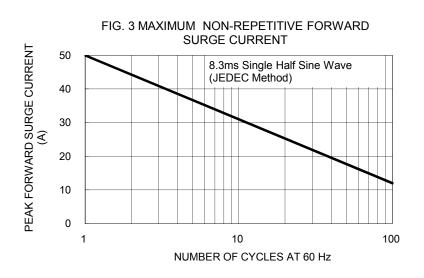
Note 1: "x" defines voltage from 50V (DBL201G) to 1400V (DBL209G)

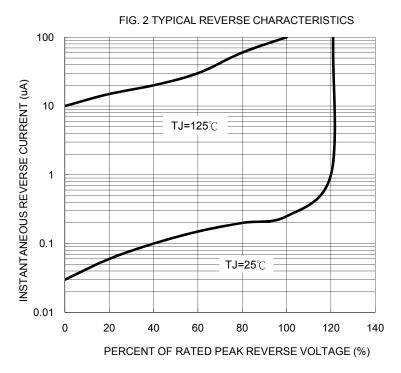
EXAMPLE								
PREFERRED P/N PART NO.		PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION				
DBL207G C1	DBL207G	C1						
DBL207G C1G	DBL207G	C1	G	Green compound				

# **RATINGS AND CHARACTERISTICS CURVES**

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









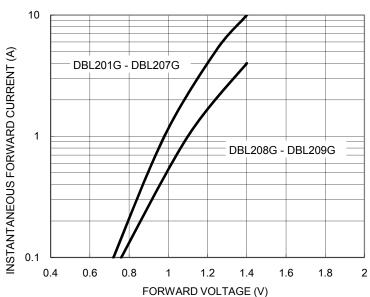
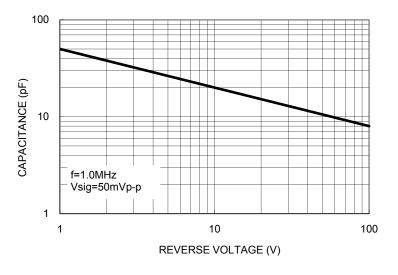
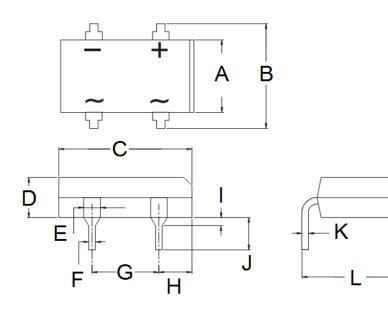




FIG. 5 TYPICAL JUNCTION CAPACITANCE



# PACKAGE OUTLINE DIMENSIONS



P/N

G

F

YW

DIM.	Unit	(mm)	Unit (inch)			
	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		
E	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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