



Glass Passivated Bridge Rectifiers

FEATURES

- Ideal for printed circuit board
- 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



DBL





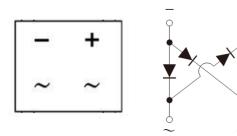
MECHANICAL DATA

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: 0.36 g (approximately)



PARAMETER	SYMBOL	DBL	DBL	DBL	DBL	DBL	DBL	DBL	
PARAMETER		101G	102G	103G	104G	105G	106G	107G	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	1						Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	40 30			0	А			
Rating for fusing (t<8.3ms)	l ² t	6.64 3.73				73	A ² s		
Maximum instantaneous forward voltage (Note 1) I _F = 1 A	V _F	1.1						V	
Maximum DC reverse current T_J =25 $^{\circ}$ Cat rated DC blocking voltage T_J =125 $^{\circ}$ C	I _R	2 500				μΑ			
Typical junction capacitance Per Leg (Note 2)	Cj	25						pF	
Typical thermal resistance	R _{θjL} R _{θjA}	15 40					°C/W		
Operating junction temperature range	T _J	- 55 to +150						οС	
Storage temperature range	T _{STG}	- 55 to +150					οс		

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

Note 2: Measure at 1.0MHz and Applied Reverse Voltage of 4.0 Volts D.C.

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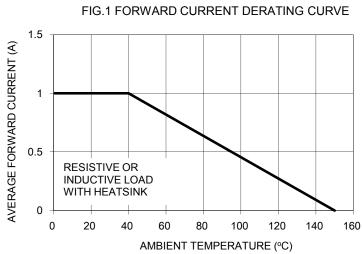
ORDERING INFORMATION							
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING			
DBL10xG (Note 1)	C1	Suffix "G"	DBL	50 / TUBE			

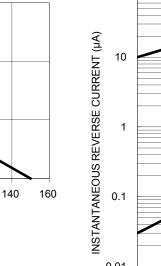
Note 1: "x" defines voltage from 50V (DBL101G) to 1000V (DBL107G)

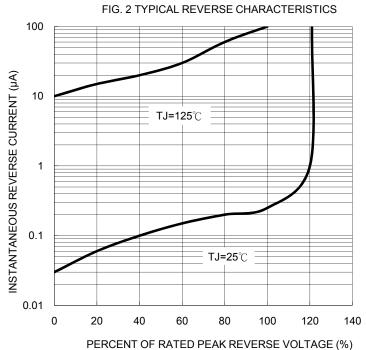
EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
DBL107G C1	DBL107G	C1					
DBL107G C1G	DBL107G	C1	G	Green compound			

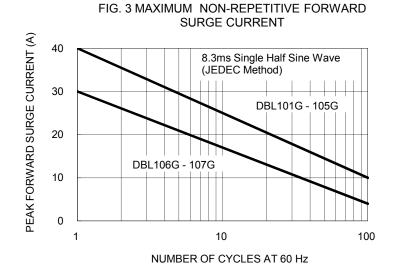
RATINGS AND CHARACTERISTICS CURVES

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









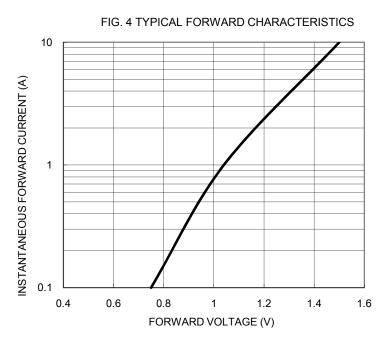
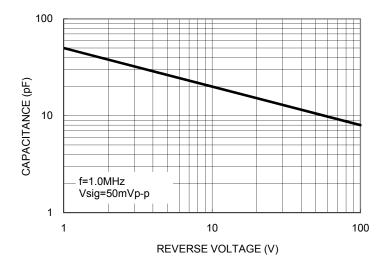
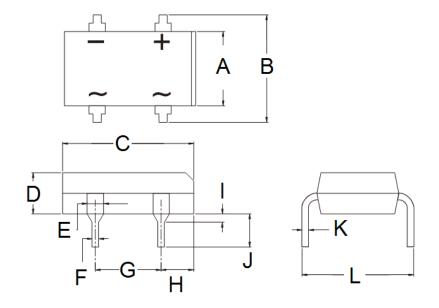




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	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	
K	0.22	0.33	0.009	0.013	
L	7.60	8.90	0.299	0.350	

MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound

YW = Date Code

F = Factory Code

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