



1A, 50V - 1000V 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

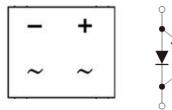
Molding compound, UL flammability classification rating 94V-0

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)



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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	UNIT
PARAIVIETER		101G	102G	103G	104G	105G	106G	107G	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
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		Α			
Rating for fusing (t<8.3ms)	l ² t	6.6		3.	.7	A ² s			
Maximum instantaneous forward voltage (Note 1) I_F = 1 A	V _F				1.1				V
Maximum reverse current @ rated V_R T_J =25°C T_J =125°C	I _R				2 100				μΑ
Typical junction capacitance per leg (Note 2)	CJ	25					pF		
Typical thermal resistance	$R_{\scriptscriptstyle{ hetaJL}}$	15 40				°C/W			
Operating junction temperature range	TJ	- 55 to +150					°C		
Storage temperature range	T _{STG}	- 55 to +150					°C		

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.



ORDERING INFORMATION					
PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING
	SUFFIX	CODE	SUFFIX ^(*)		
DBLS10xG	П	C1	G	DBLS	50 / TUBE
(Note 1)	11	RD	G	DBLS	1,500 / 13" Paper reel

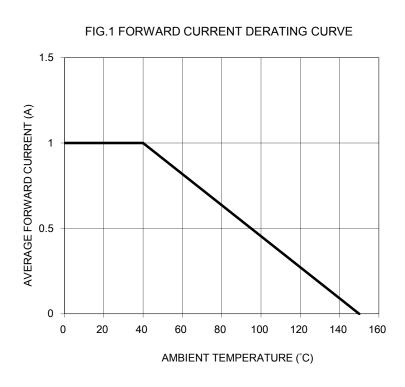
Note 1: "x" defines voltage from 50V (DBLS101G) to 1000V (DBLS107G)

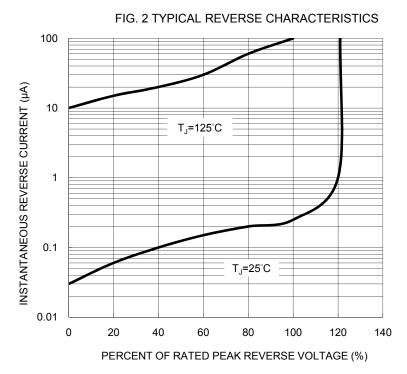
^{*:} Optional available

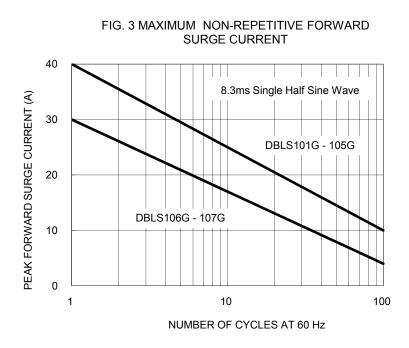
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
DBLS107GHRDG	DBLS107G	Н	RD	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







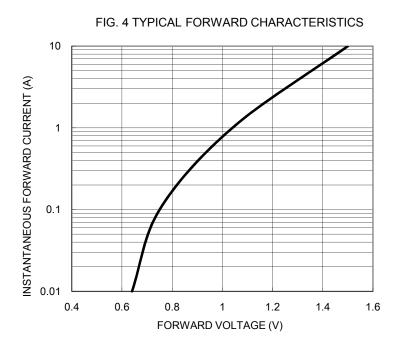
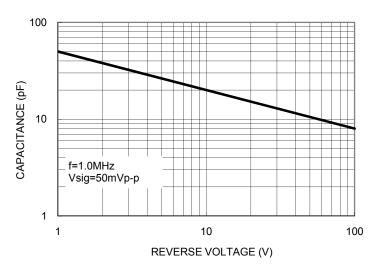


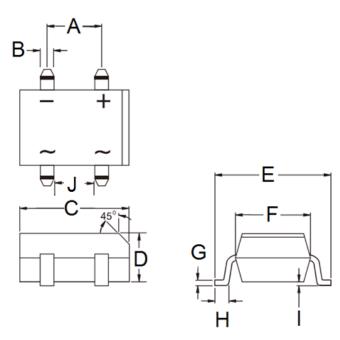


FIG. 5 TYPICAL JUNCTION CAPACITANCE



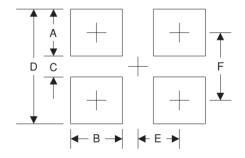
PACKAGE OUTLINE DIMENSIONS

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	
I	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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