



1A, 400V - 1000V Glass Passivated Bridge Rectifiers

FEATURES

- Ideal for automated placement
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Halogen-free according to IEC 61249-2-21
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC







DBLS

MECHANICAL DATA

Case: Molded plastic body

Molding compound, UL flammability classification rating 94V-0

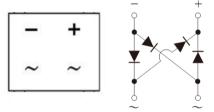
Moisture sensitivity level: level 1, per J-STD-020

Packing code with suffix "G" means green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per J-STD-002

Meet JESD 201 class 1A whisker test **Polarity:** Polarity as marked on the body

Weight: 0.36 g (approximately)



PARAMETER	SYMBOL	DBLS	DBLS	DBLS 106G-T	DBLS 107G-T	UNIT
PARAMETER		104G-T	105G-T			
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	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		60	А	
Rating for fusing (t<8.3ms)	l ² t	6.6 3.7		.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 $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	@ rated V _p			μА		
Typical junction capacitance per leg (Note 2)	CJ	25				pF
Typical thermal resistance	R _{θJL} R _{θJA}				°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 CODE		PACKAGE	PACKING
DBLS10XG-T	C1	G	DBLS	50 / TUBE
(Note 1)	RD] "	DBLS	1,500 / 13" Paper reel

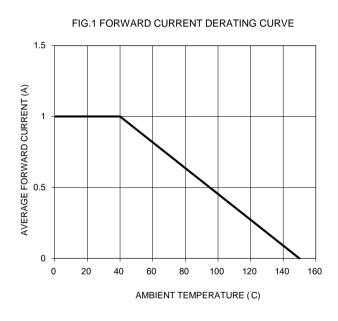
Note 1: "x" defines voltage from 400V (DBLS104G-T) to 1000V (DBLS107G-T)

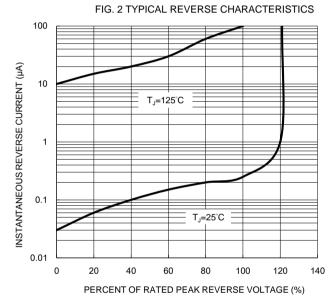
Note 2: All series with green compound

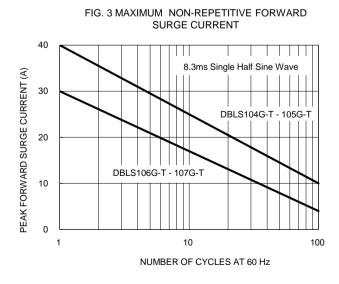
EXAMPLE					
EXAMPLE P/N	PART NO.	PART NO. PACKING CODE		DESCRIPTION	
DBLS107G-T RDG	DBLS107G-T	RD	G	Green compound	

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







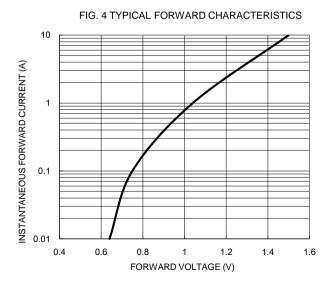
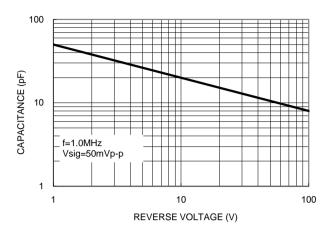


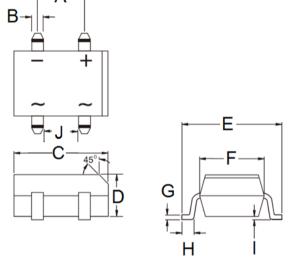


FIG. 5 TYPICAL JUNCTION CAPACITANCE



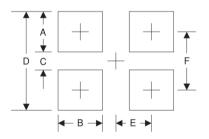
PACKAGE OUTLINE DIMENSIONS

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	2.35	2.60	0.093	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
E	2.6	0.102
F	9.2	0.362

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound YW = Date Code

= Factory Code



Taiwan Semiconductor

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