



1.5A, 400V - 1000V Standard Bridge Rectifier

FEATURES

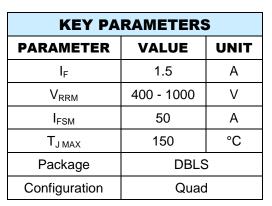
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- UL Recognized File # E-326854
- Moisture sensitivity level: level 1, per J-STD-020
- RoHS Compliant
- Halogen-free according to IEC 61249-2-21

APPLICATIONS

- Switching mode power supply (SMPS)
- Adapters
- Lighting application

MECHANICAL DATA

- · Case: DBLS
- Molding compound meets UL 94V-0 flammability rating
- Terminal: Matte tin plated leads, solderable per J-STD-002
- Meet JESD 201 class 1A whisker test
- Polarity: As marked
- Weight: 0.360g (approximately)



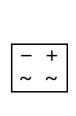


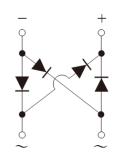






DBLS





ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise noted)						
PARAMETER	SYMBOL	DBLS 154G-T	DBLS 155G-T	DBLS 156G-T	DBLS 157G-T	UNIT
Marking code on the device		DBLS154G	DBLS155G	DBLS156G	DBLS157G	
Repetitive peak reverse voltage	V_{RRM}	400	600	800	1000	V
Reverse voltage, total rms value	V _{R(RMS)}	280	420	560	700	V
Forward current	I _F		1	.5		Α
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50		Α		
Rating for fusing (t<8.3ms)	l ² t	10.37		A ² s		
Junction temperature	TJ	- 55 to +150		°C		
Storage temperature	T _{STG}	- 55 to +150		°C		



THERMAL PERFORMANCE			
PARAMETER	SYMBOL	TYP	UNIT
Junction-to-lead thermal resistance	R _{OJL}	15	°C/W
Junction-to-ambient thermal resistance	$R_{\Theta JA}$	40	°C/W

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)					
PARAMETER	CONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage per diode ⁽¹⁾	I _F = 1.5A, T _J = 25°C	V _F	-	1.1	V
Reverse current @ rated V _R per diode ⁽²⁾	T _J = 25°C	ı	-	2	μA
	T _J = 125°C	l _R	-	500	μΑ
Junction capacitance per diode	$1MHz, V_R = 4.0V$	CJ	25	-	pF

Notes:

- 1. Pulse test with PW = 0.3ms
- 2. Pulse test with PW = 30ms

ORDERING INFORMATION			
ORDERING CODE ⁽¹⁾	PACKAGE	PACKING	
DBLS15xG-T	DBLS	1,500 / Tape & Reel	

Notes:

1. "x" defines voltage from 400V(DBLS154G-T) to 1000V(DBLS157G-T)



CHARACTERISTICS CURVES

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

Fig.1 Forward Current Derating Curve

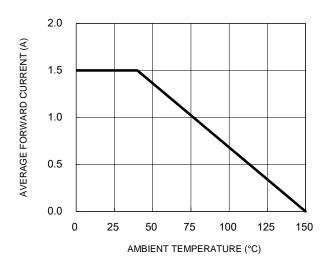


Fig.3 Typical Reverse Characteristics

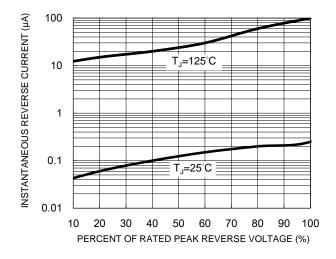


Fig.2 Typical Junction Capacitance

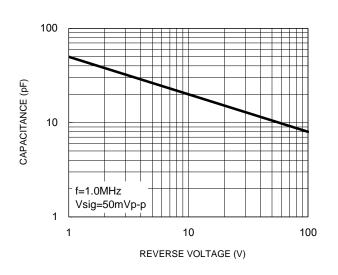


Fig.4 Typical Forward Characteristics

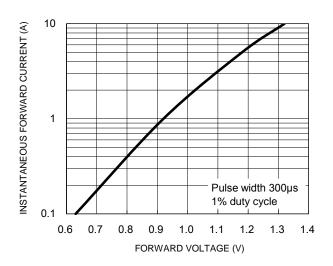
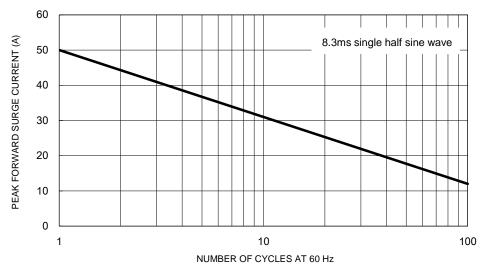


Fig.5 Maximum Non-Repetitive Forward Surge Current



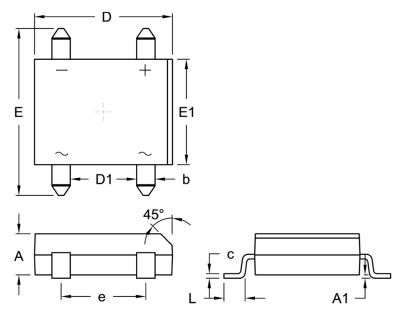
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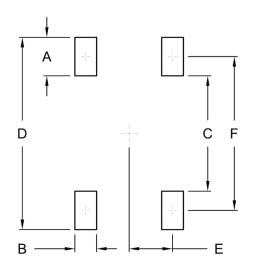
PACKAGE OUTLINE DIMENSIONS

DBLS



DIM.	Unit (mm)		Unit ((inch)	
DIW.	Min.	Max.	Min.	Max.	
Α	2.35	2.60	0.093	0.102	
A1	0.076	0.33	0.003	0.013	
b	1.02	1.20	0.040	0.047	
С	0.22	0.33	0.009	0.013	
D	8.13	8.51	0.320	0.335	
D1	3.90	4.10	0.154	0.161	
E	9.80	10.30	0.386	0.406	
E1	6.20	6.50	0.244	0.256	
е	5.00	5.20	0.197	0.205	
L	1.02	1.53	0.040	0.060	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	2.30	0.091
В	1.30	0.051
С	6.90	0.272
D	11.50	0.453
E	2.60	0.102
F	9.20	0.362

MARKING DIAGRAM



P/N = Marking Code

G = Green Compound

YW = Date Code
F = Factory Code



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