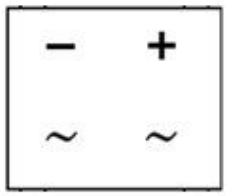
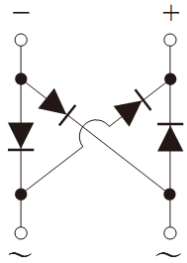
- UL Recognized File # E-326854
- Moisture sensitivity level: level 1, per J-STD-020
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

DBLS





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)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise noted)

PARAMETER	SYMBOL	DBLS 201G	DBLS 202G	DBLS 203G	DBLS 204G	DBLS 205G	DBLS 206G	DBLS 207G
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000
Maximum average forward rectified current	$I_{F(AV)}$	2						
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	50						
Rating for fusing (t<8.3ms)	I^2t	10.3						
Maximum instantaneous forward voltage (Note 1) I_F= 2 A	V_F	1.15						
Maximum DC reverse current T_J=25 ℃ at rated DC blocking voltage T_J=125℃	I_R	2 500						
Typical thermal resistance	$R_{\theta jL}$ $R_{\theta jA}$	15 40						
Operating junction temperature range	T_J	- 55 to +150						
Storage temperature range	T_{STG}	- 55 to +150						

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

Document Number: DS_D1310039

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPT
DBLS207G RD	DBLS207G	RD		
DBLS207G RDG	DBLS207G	RD	G	Green compo

RATINGS AND CHARACTERISTICS CURVES

(TA=25℃ unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

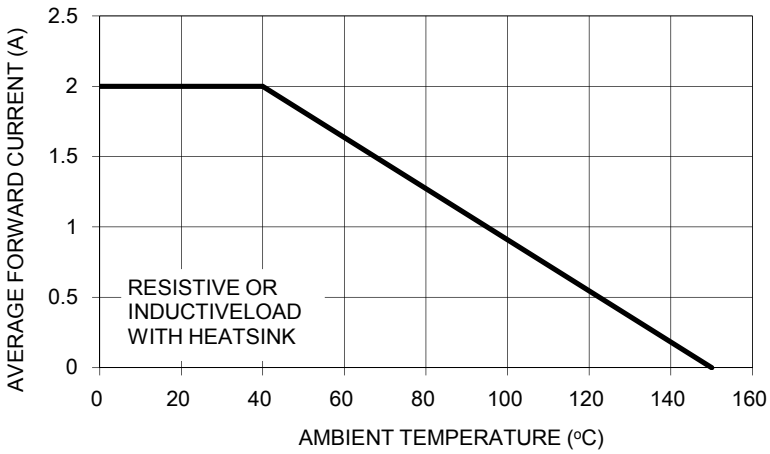


FIG. 2 TYPICAL REVERSE CHARACTE

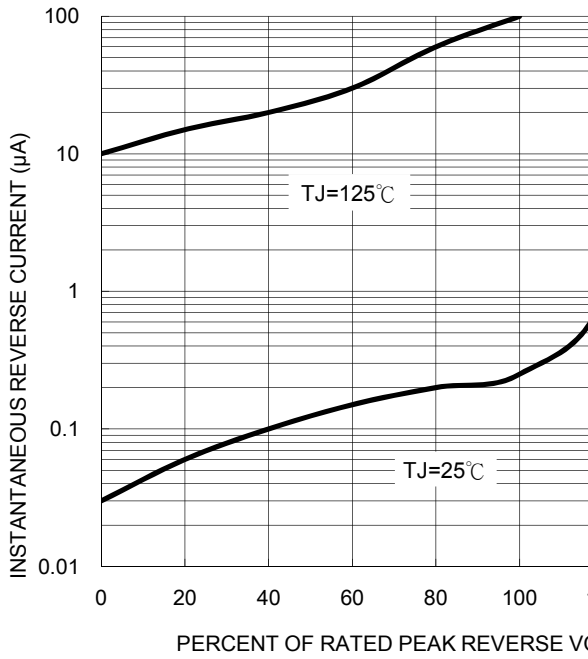


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

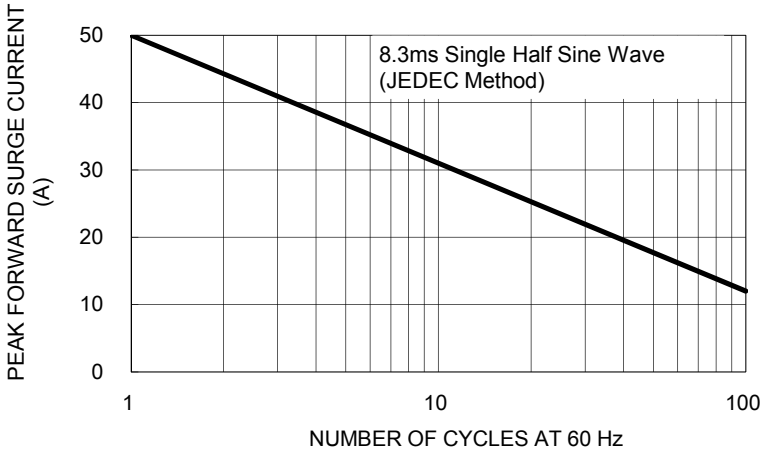
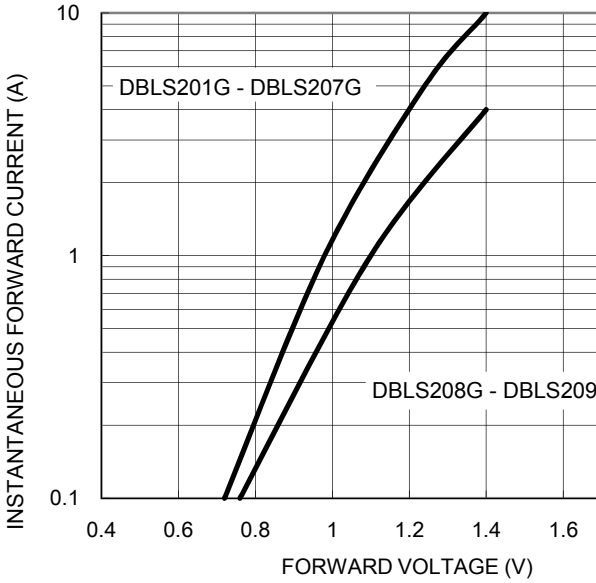
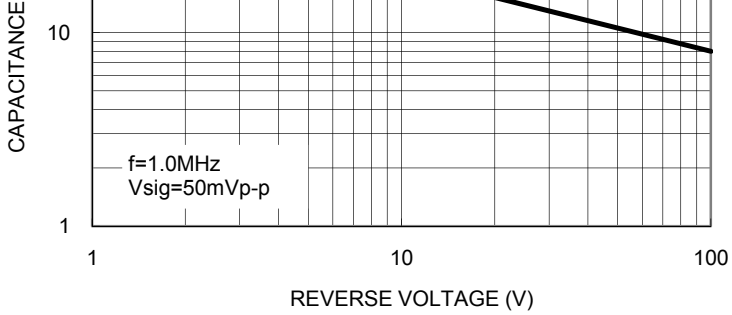
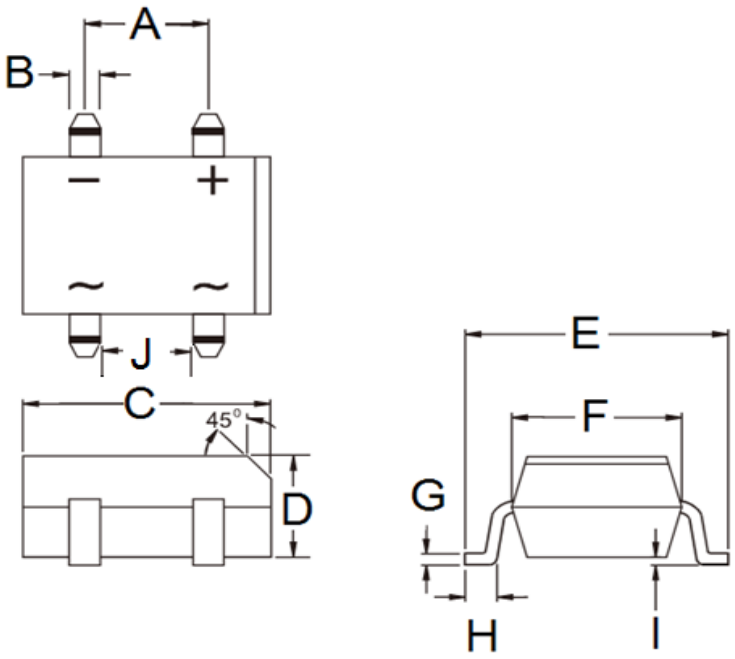


FIG. 4 TYPICAL FORWARD CHARACTER



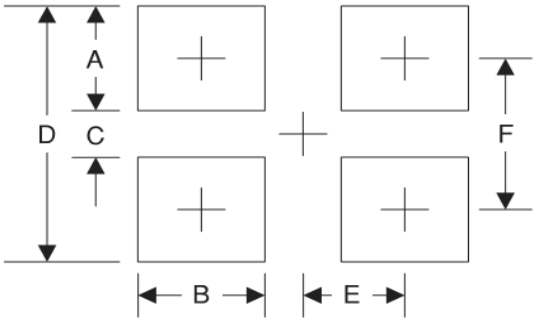


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (
	Min	Max	Min
A	5.00	5.20	0.197
B	1.02	1.20	0.040
C	8.13	8.51	0.320
D	2.40	2.60	0.094
E	9.80	10.30	0.386
F	6.20	6.50	0.244
G	0.22	0.33	0.009
H	1.02	1.53	0.040
I	0.076	0.33	0.003
J	3.90	4.10	0.154

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	2.3	0.091
B	1.3	0.051
C	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
F = Factory Code

Document Number: DS_D1310039

Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its b
assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implie
any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditio
sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty
relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular
merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications.
Customers using or seling these products for use in such applications do so at their own risk and agree to f
indemnify TSC for any damages resulting from such improper use or sale.