

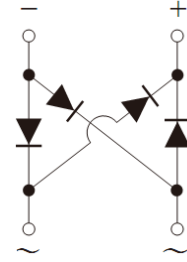
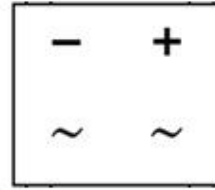
- Moisture sensitivity level: level 1, per J-STD-020
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



**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<sub>A</sub>=25°C unless otherwise noted)**

PARAMETER	SYMBOL	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	DBLS	
		151G	152G	153G	154G	155G	156G	157G	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	
Maximum average forward rectified current	I <sub>F(AV)</sub>	1.5							
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50							
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	10.3							
Maximum instantaneous forward voltage (Note 1) I <sub>F</sub> = 1.5 A	V <sub>F</sub>	1.1							
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>						2	500	
Typical thermal resistance	R <sub>θJL</sub>						15		
	R <sub>θJA</sub>						40		
Operating junction temperature range	T <sub>J</sub>						- 55 to +150		
Storage temperature range	T <sub>STG</sub>						- 55 to +150		

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

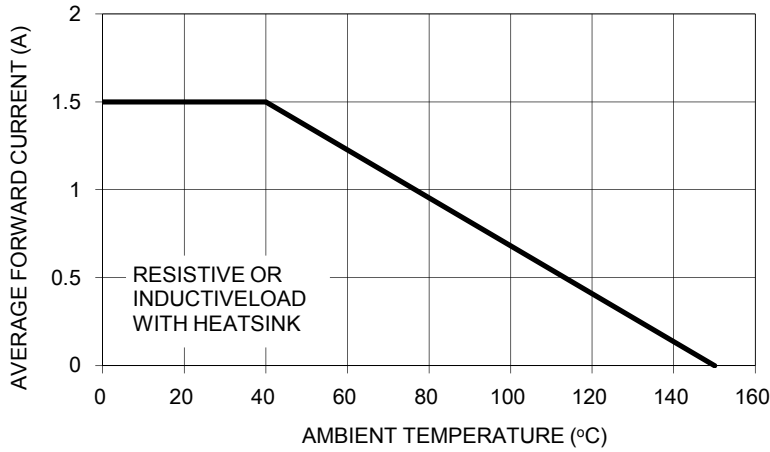
**EXAMPLE**

PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
DBLS157G RD	DBLS157G	RD		
DBLS157G RDG	DBLS157G	RD	G	Green comp

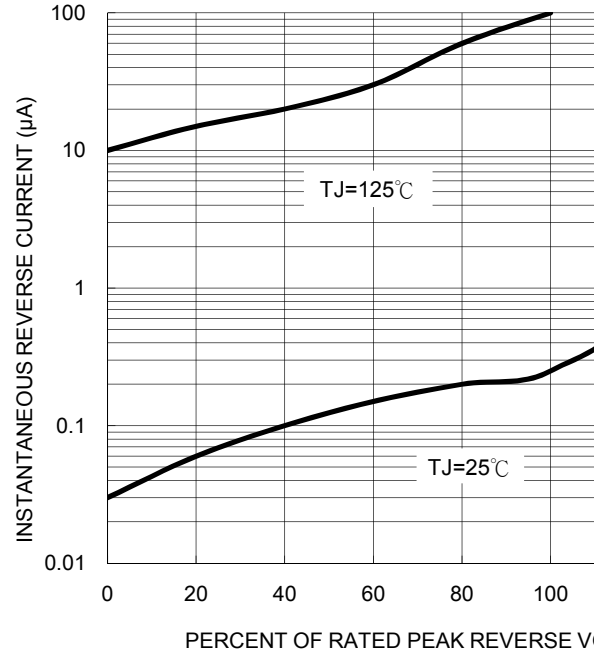
**RATINGS AND CHARACTERISTICS CURVES**

(TA=25°C unless otherwise noted)

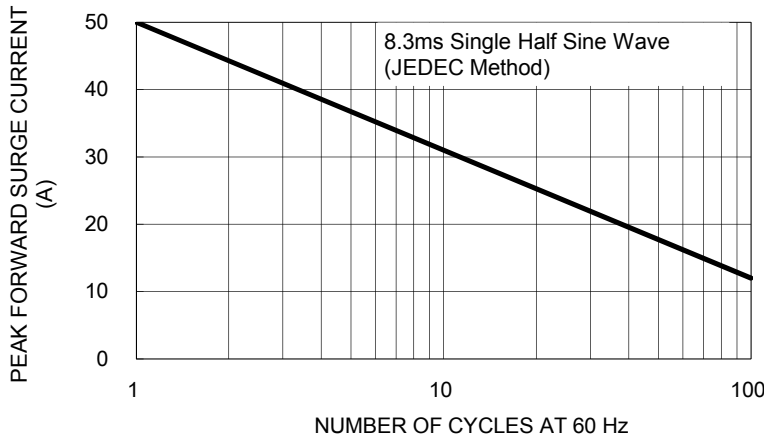
**FIG. 1 FORWARD CURRENT DERATING CURVE**



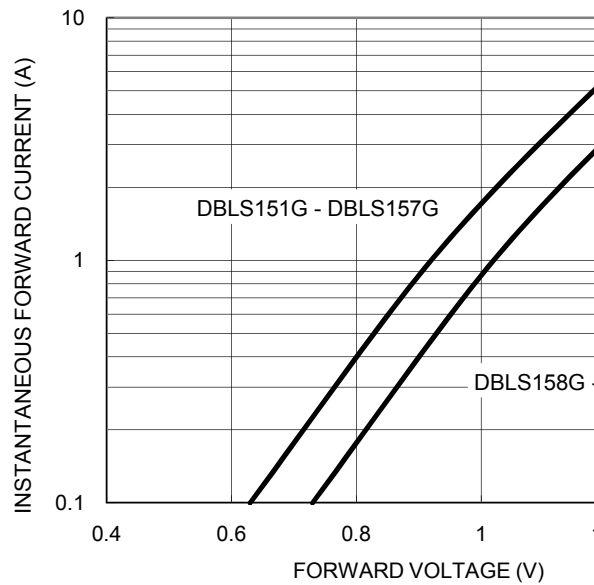
**FIG. 2 TYPICAL REVERSE CHARACTERISTICS**

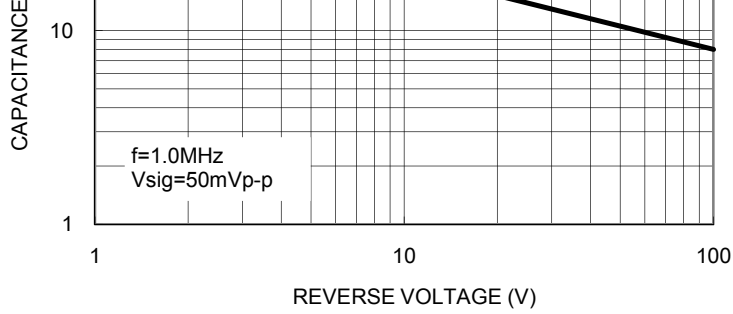


**FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**

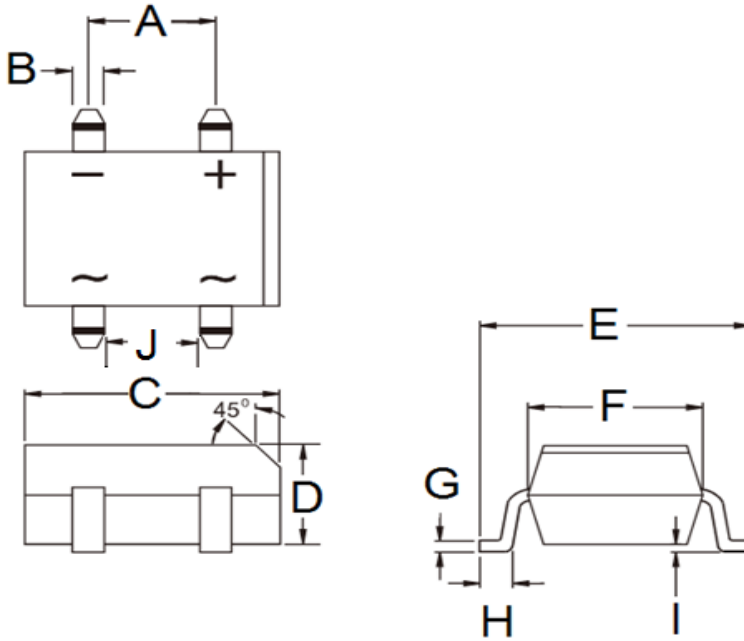


**FIG. 4 TYPICAL FORWARD CHARACTERISTICS**



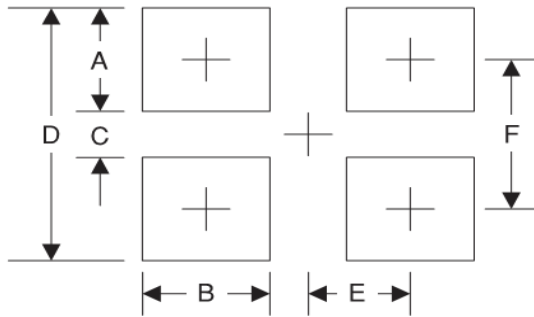


### PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	5.00	5.20	0.197	0.205
B	1.02	1.20	0.040	0.047
C	8.13	8.51	0.320	0.335
D	2.40	2.60	0.094	0.102
E	9.80	10.30	0.386	0.405
F	6.20	6.50	0.244	0.256
G	0.22	0.33	0.009	0.013
H	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)
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

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