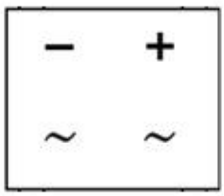
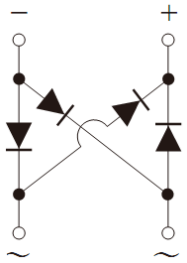
- Moisture sensitivity level: level 1, per J-STD-020
- UL Recognized File # E-326854
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition
- AEC-Q101 qualified

DBLS





MECHANICAL DATA

Case: Molded plastic body

Molding compound, UL flammability classification rating 94V-0

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)

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

PARAMETER	SYMBOL	DBLS 101G	DBLS 102G	DBLS 103G	DBLS 104G	DBLS 105G	DBL 106
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	80
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	56
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	80
Maximum average forward rectified current	$I_{F(AV)}$	1					
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	40					
Rating for fusing (t<8.3ms)	I^2t	6.6					
Maximum instantaneous forward voltage (Note 1) I_F= 1 A	V_F	1.1					
Maximum DC reverse current T_J=25°C at rated DC blocking voltage T_J=125°C	I_R	2 100					
Typical junction capacitance per leg (Note 2)	Cj	25					
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

Note 2: Measure at 1.0MHz and Applied Reverse Voltage of 4.0 Volts D.C.

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTIO
DBLS107G RD	DBLS107G	RD		AEC-Q101 qual
DBLS107G RDG	DBLS107G	RD	G	AEC-Q101 qual Green compou

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

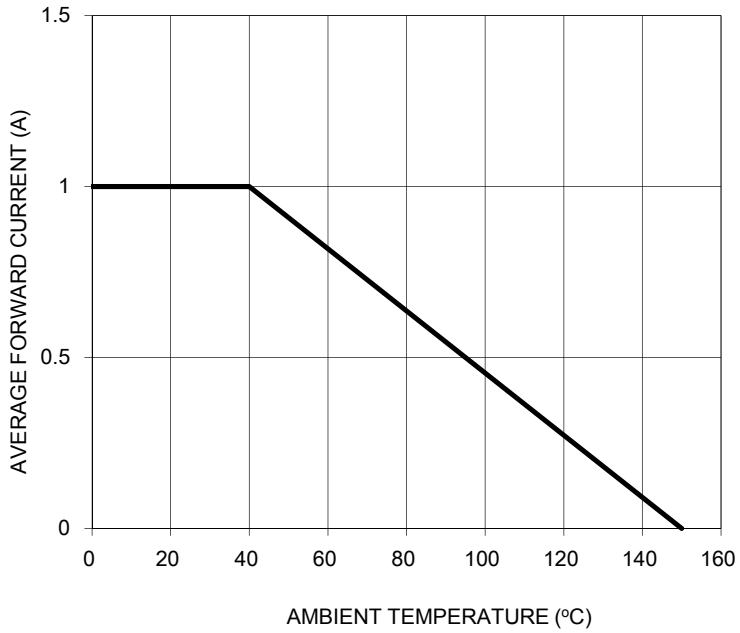


FIG. 2 TYPICAL REVERSE CHARAC

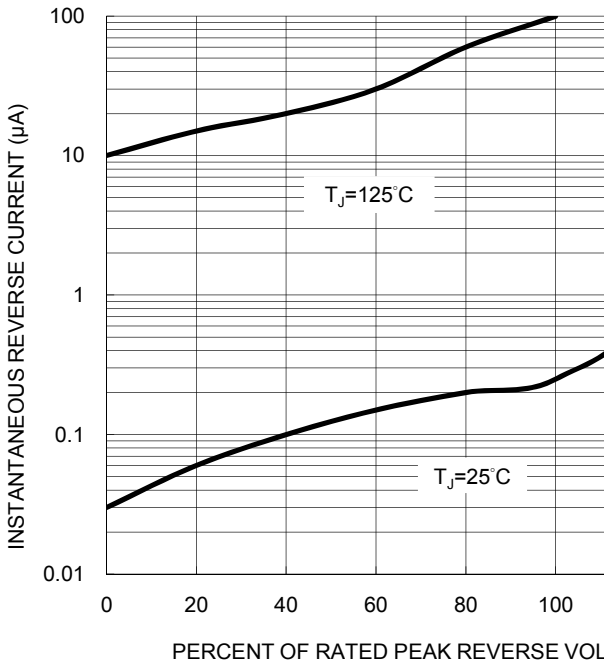


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

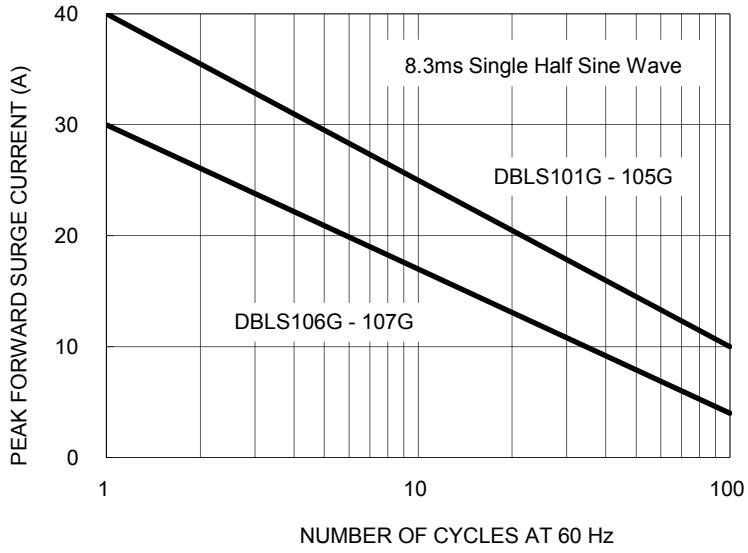
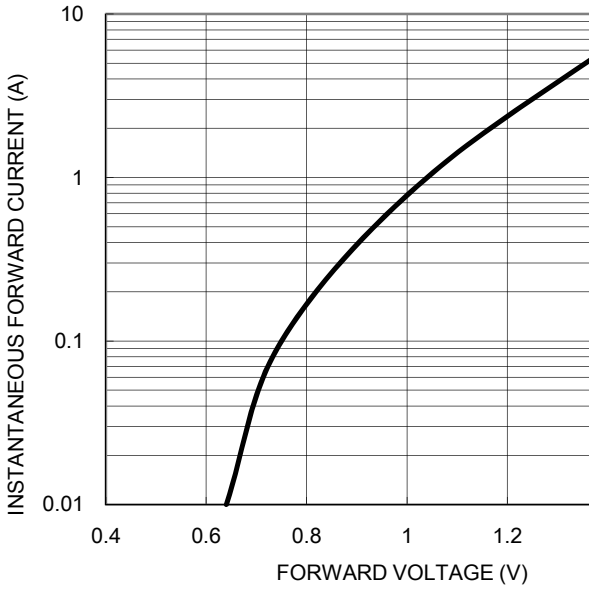
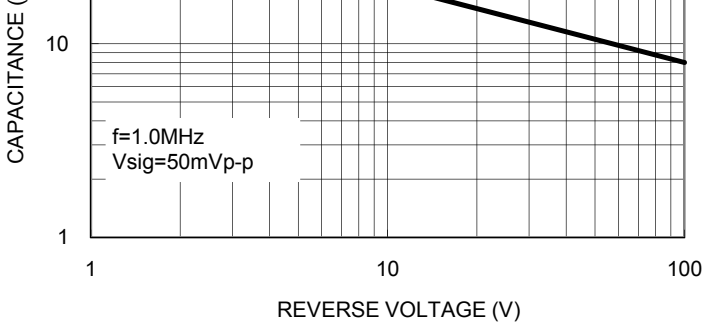


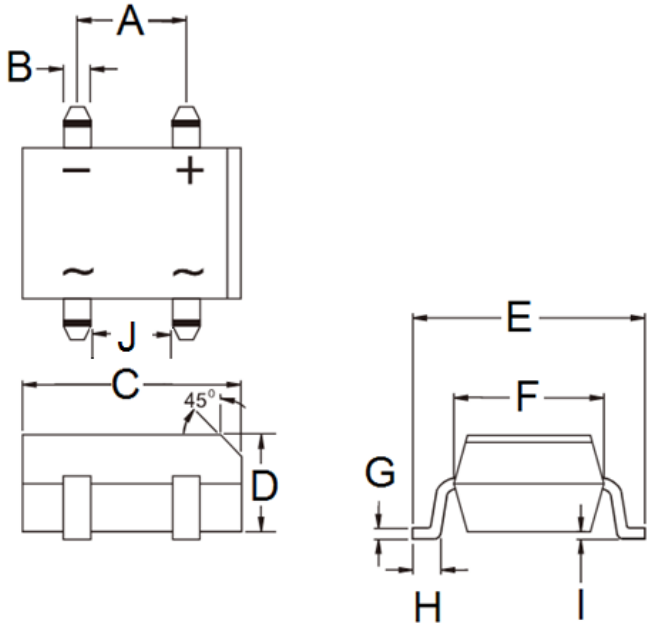
FIG. 4 TYPICAL FORWARD CHARACTE





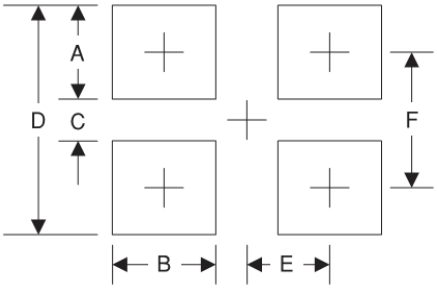
PACKAGE OUTLINE DIMENSIONS

DBLS



DIM.	Unit (mm)		Unit (inc	
	Min	Max	Min	M
A	5.00	5.20	0.197	0
B	1.02	1.20	0.040	0
C	8.13	8.51	0.320	0
D	2.40	2.60	0.094	0
E	9.80	10.30	0.386	0
F	6.20	6.50	0.244	0
G	0.22	0.33	0.009	0
H	1.02	1.53	0.040	0
I	0.076	0.33	0.003	0
J	3.90	4.10	0.154	0

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_D1410052

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