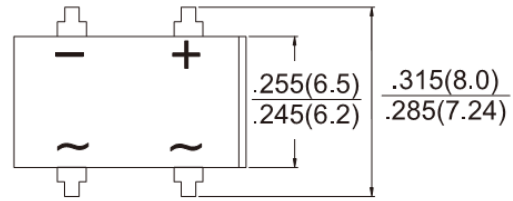




RoHS
COMPLIANCE

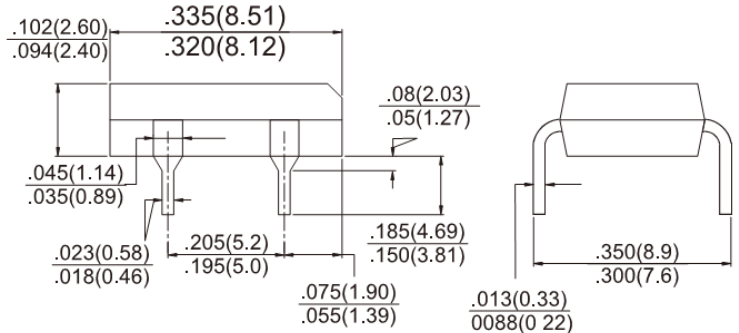


DBL



Features

- ✧ UL Recognized File # E-326854
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ High temperature soldering guaranteed:
260°C / 10 seconds at 5lbs., (2.3kg) tension
- ✧ High surge current capability
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode



Mechanical Data

- ✧ Case: Molded plastic body
- ✧ Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- ✧ Weight: 0.37 grams

Dimensions in inches and (millimeters)

Marking Diagram



- DBL10XG = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	DBL 101G	DBL 102G	DBL 103G	DBL 104G	DBL 105G	DBL 106G	DBL 107G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =40°C	I _{F(AV)}	1							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	40					30		A
Maximum Instantaneous Forward Voltage (Note 1) @1.0A	V _F	1.1							V
Maximum DC Reverse Current @T _A =25°C at Rated DC Block Voltage @ T _A =125 °C	I _R	10 500							uA
Typical Junction Capabitanace	C _j	25							pF
Typical Thermal Resistance (Note 2)	R _{θjA}	40							°C/W
	R _{θjL}	15							
Operating Temperature Range	T _J	- 55 to + 150							°C
Storage Temperature Range	T _{STG}	- 55 to + 150							°C

Notes 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Notes 2: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted On P.C.B.

With 0.2" x 0.2"(5mm x 5mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (DBL101G THRU DBL107G)

FIG. 1 FORWARD CURRENT DERATING CURVE

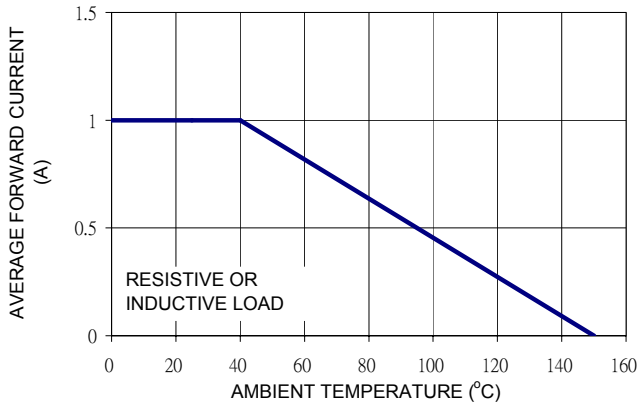


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

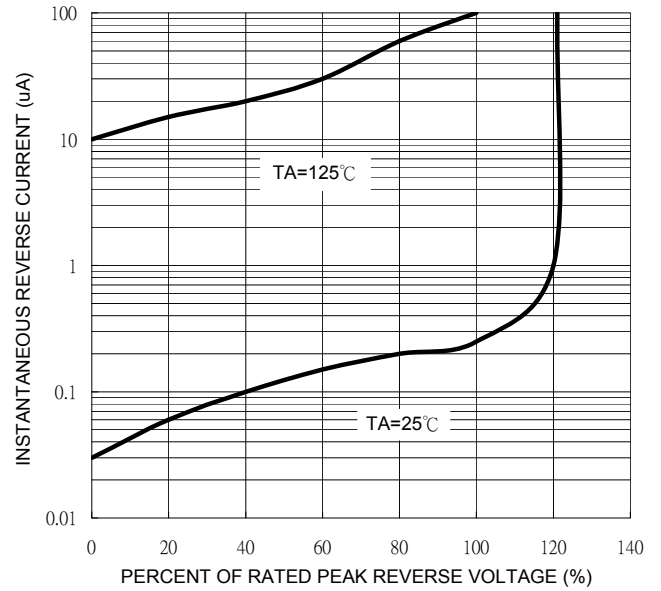


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

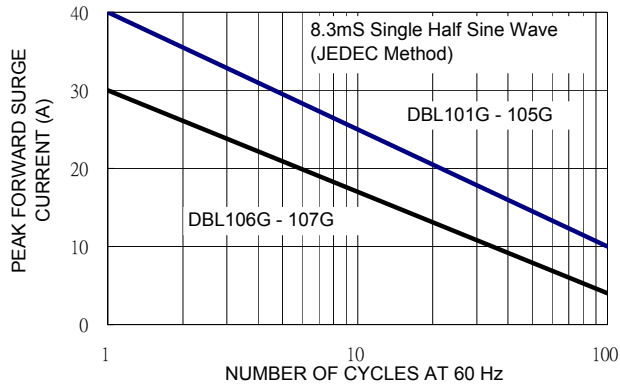


FIG. 4 TYPICAL JUNCTION CAPACITANCE

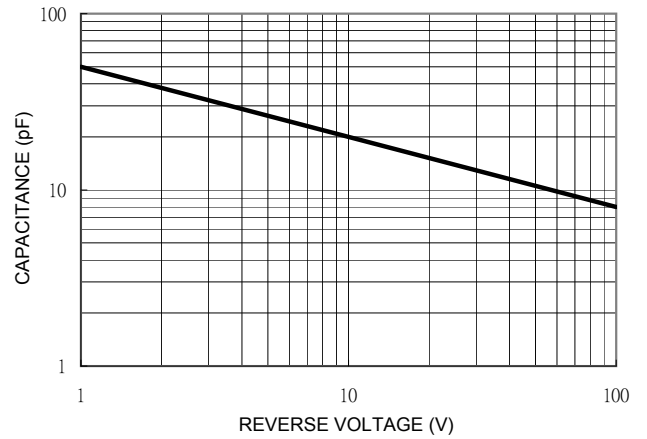


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

