



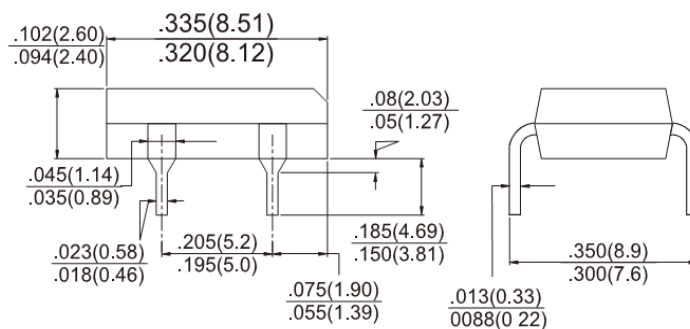
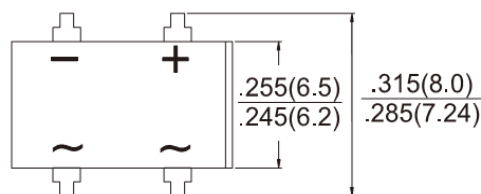
DBL201G - DBL209G

Single Phase 2.0AMPS. Glass Passivated Bridge Rectifiers

DBL

Features

- ✧ UL Recognized File # E-326854
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed: 260°C / 10 seconds at 5lbs., (2.3kg) tension
- ✧ Small size, simple installation
- ✧ 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: 0.38 grams

Dimensions in inches and (millimeters)

Marking Diagram



- P/N = 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 201G	DBL 202G	DBL 203G	DBL 204G	DBL 205G	DBL 206G	DBL 207G	DBL 208G	DBL 209G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	1200	1400	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	840	980	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	1200	1400	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2									A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50									A
Maximum Instantaneous Forward Voltage (Note 1) @ 2 A	V _F	1.15							1.30		V
Maximum DC Reverse Current @T _A =25°C at Rated DC Block Voltage @ T _A =125 °C	I _R	10 500									uA
Typical Thermal Resistance	R _{θJA} R _{θJL}	40 15									°C/W
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

RATINGS AND CHARACTERISTIC CURVES (DBL201G THRU DBL209G)

FIG.1 FORWARD CURRENT DERATING CURVE

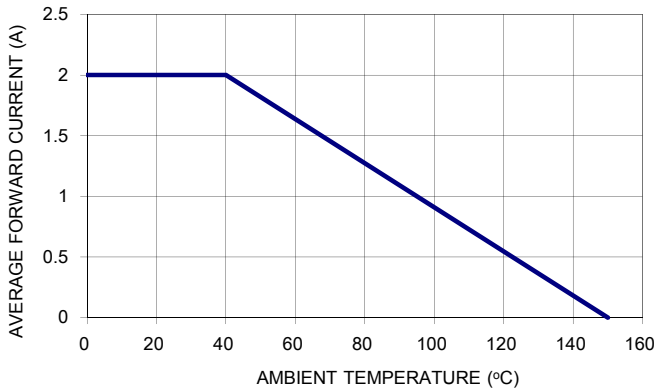


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

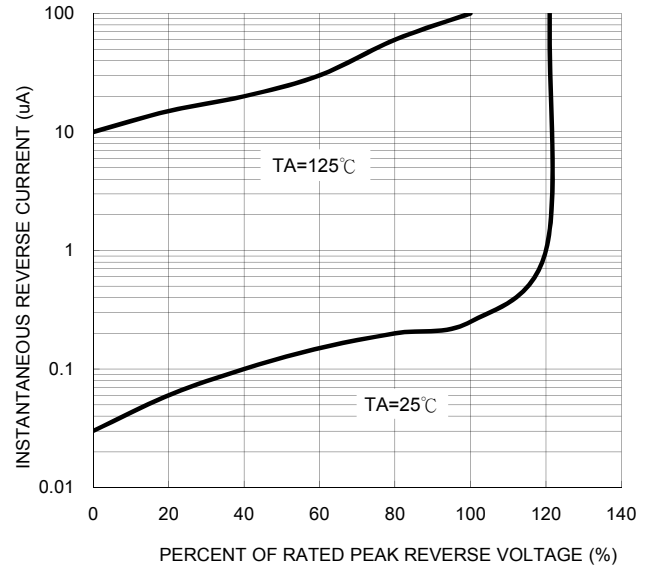


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

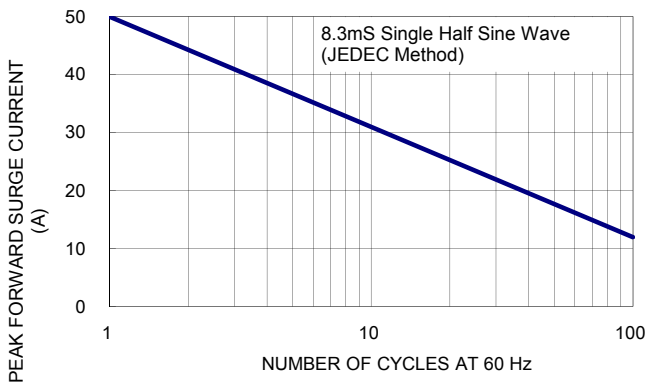


FIG. 4 TYPICAL JUNCTION CAPACITANCE

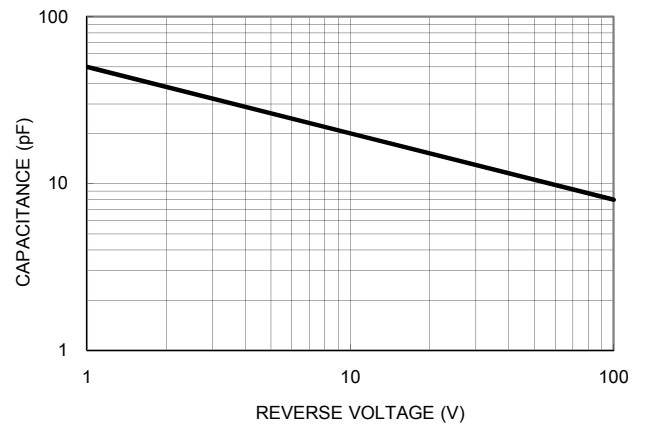


FIG. 5 TYPICAL FORWARD CHARACTERISRICS

