



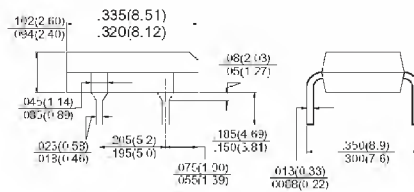
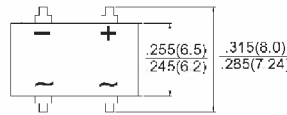
DBL201G - DBL209G

Single Phase 2.0 AMPS. Glass Passivated Bridge Rectifiers

DBL

Features

- ✧ 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 5 lbs., (2.3 kg) tension
- ✧ Small size, simple installation
- ✧ Leads solderable per MIL-STD-202 Method 208
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode.



Dimensions in inches and (millimeters)

Marking Diagram



DBL20XG = 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	Units	
Maximum Recurrent 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 @T _A = 40 °C	I(AV)	2.0									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 @ 2.0A	V _F	1.15						1.30			V	
Maximum DC Reverse Current @T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	10					500					uA uA
Typical Thermal Resistance (Note)	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	

Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.51 x 0.51" (13 x 13mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (DBL201G THRU DBL209G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

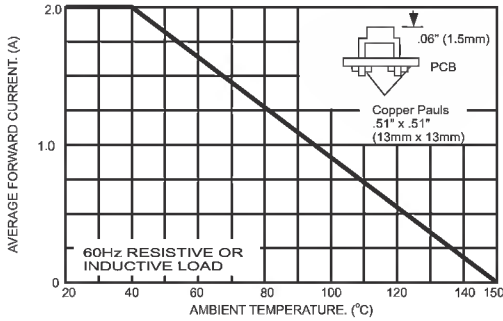


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

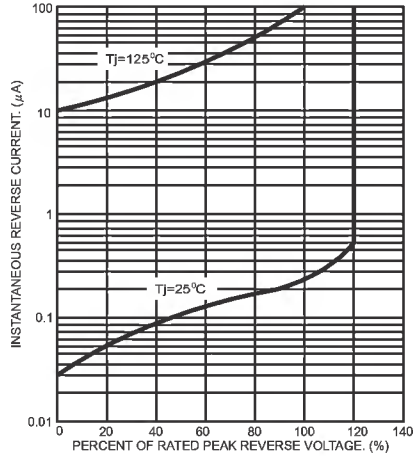


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

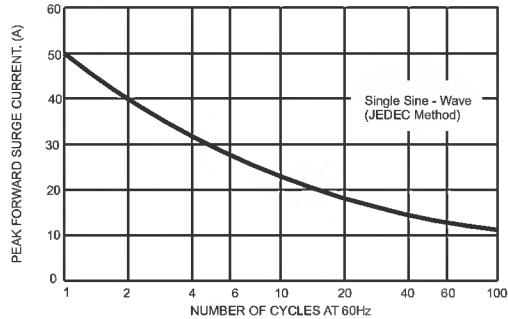


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

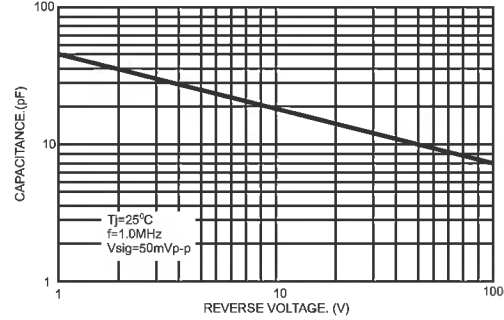


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

