DBL201G THRU DBL209G

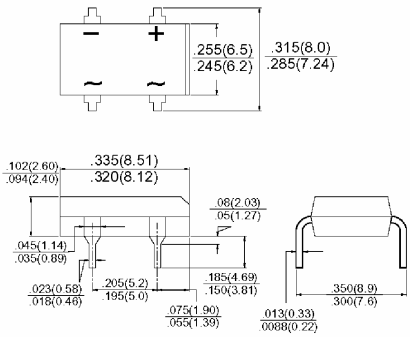
Single Phase 2.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range
50 to 1400 Volts
Current
2.0 Amperes

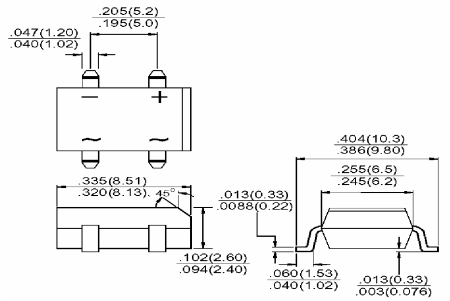
Features

- ✧
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed: 260℃ / 10 seconds at 5 lbs., (2.3 kg) tension
- ✧ Small size, simple installation
- ✧ Leads solderable per MIL-STD-202 Method 208

DBL



DBLS



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ 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 / DBLS 201G	DBL 202G / DBLS 202G	DBL 203G / DBLS 203G	DBL 204G / DBLS 204G	DBL 205G / DBLS 205G	DBL 206G / DBLS 206G	DBL 207G / DBLS 207G	DBL 208G / DBLS 208G	DBL 209G / DBLS 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℃	$I_{(AV)}$	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℃ at Rated DC Blocking Voltage @ T_A=125℃	I_R	10 500									uA uA
Typical Thermal Resistance (Note)	RθJA RθJL	40 15									℃/w
Operating Temperature Range	T_J	-55 to +150									℃
Storage Temperature Range	T_{STG}	-55 to +150									℃

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) Coper Pads.

RATINGS AND CHARACTERISTIC CURVES (DBL201G THRU DBL209G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

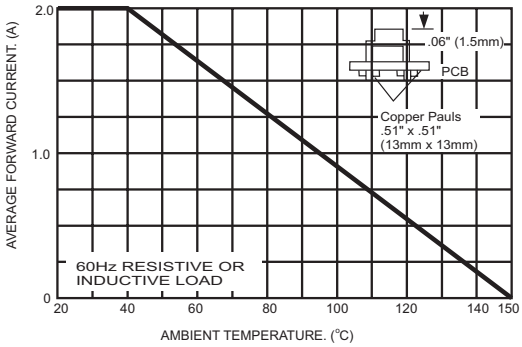


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

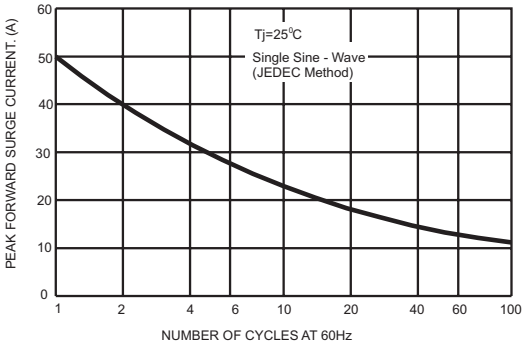


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

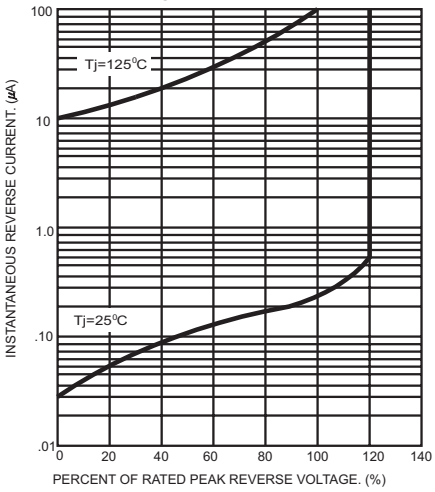


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

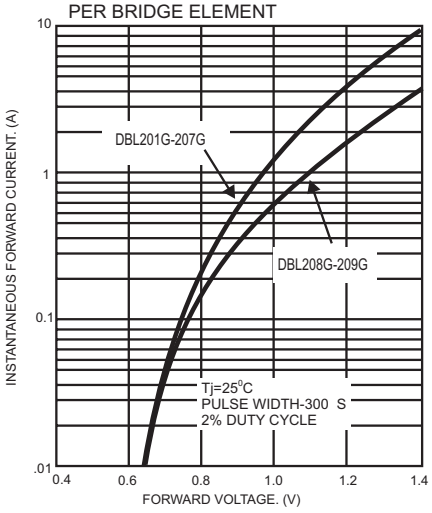


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT