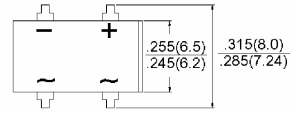


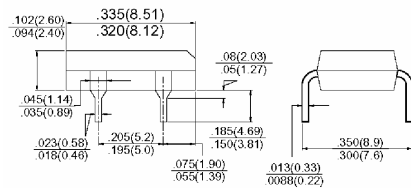


### DBL

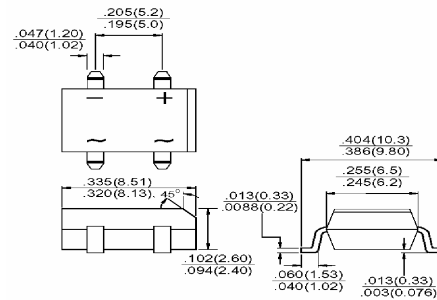


### Features

- ✧ 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°C / 10 seconds at 5 lbs., ( 2.3 kg )  
tension
- ✧ Small size, simple installation



### DBLS



Dimensions in inches and (millimeters)

### 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	
		DBLS 201G	DBLS 202G	DBLS 203G	DBLS 204G	DBLS 205G	DBLS 206G	DBLS 207G	DBLS 208G	DBLS 209G		
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 @ $T_A = 40^\circ\text{C}$	$I_{(AV)}$	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 @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	$I_R$	10					500					$\mu\text{A}$ $\mu\text{A}$
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$	40					15					$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	-55 to +150									$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$	-55 to +150									$^\circ\text{C}$	

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) Coper Pads.

### RATINGS AND CHARACTERISTIC CURVES (DBL(S)201G THRU DBL(S)209G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

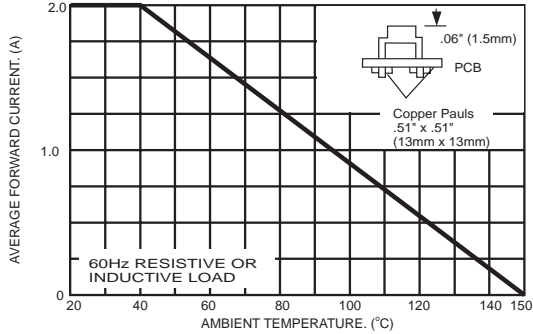


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

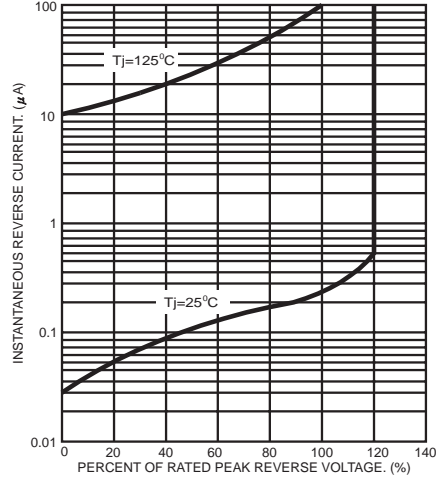


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

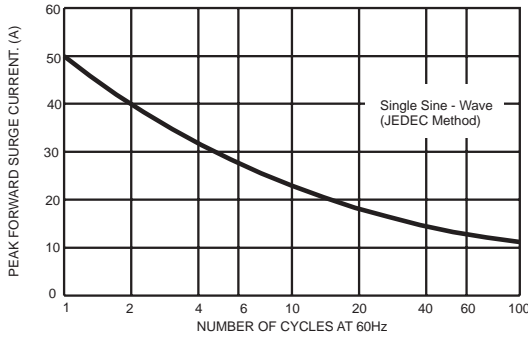


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

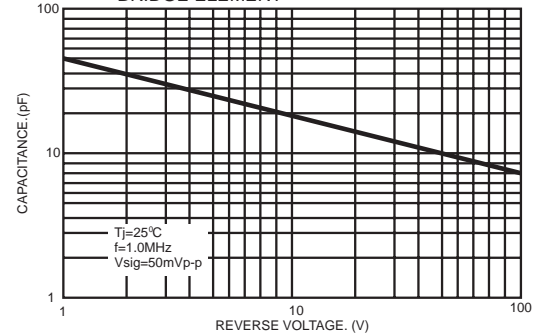


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

