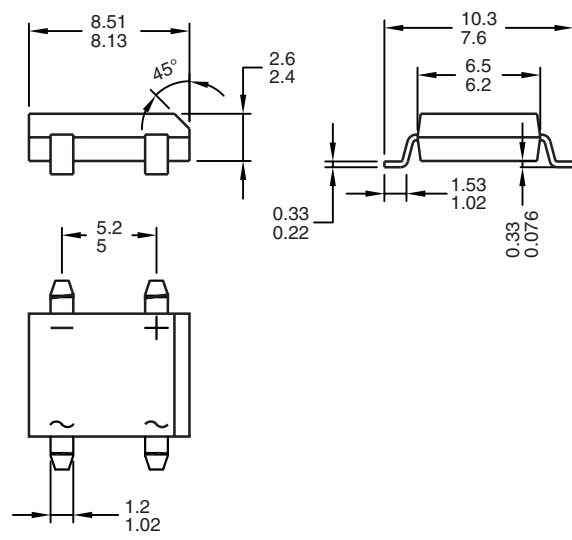


## Single Phase 2.0 Amp. Glass Passivated Bridge Rectifiers

| <b>Dimensions in mm.</b><br><br>   | <b>CASE:<br/>THIN DF-S</b> | <b>Voltage</b><br>400 V-1400 V | <b>Current</b><br>2.0 A |
|--|----------------------------|--------------------------------|-------------------------|
| <ul style="list-style-type: none"> <li>Glass passivated junction</li> <li>Ideal for printed circuit board</li> <li>Reliable low cost construction utilizing molded plastic technique</li> <li>High surge current capability</li> <li>High temperature soldering guaranteed: 260 °C / 10 seconds at 5 lbs., (2.3 Kg) tension</li> <li>Small size, simple installation</li> <li>Pure tin plated terminal, Lead free. Leads solderable per MIL-STD-202, Method 208</li> </ul> |                            |                                |                         |

### Maximum Ratings and Electrical Characteristics

|               |  | DBLS<br>204G    | DBLS<br>205G | DBLS<br>206G | DBLS<br>207G | DBLS<br>208G | DBLS<br>209G |
|---------------|--|-----------------|--------------|--------------|--------------|--------------|--------------|
| $V_{RRM}$     | Maximum Recurrent Peak Reverse Voltage (V)   | 400             | 600          | 800          | 1000         | 1200         | 1400         |
| $V_{RMS}$     | Maximum RMS Voltage (V)  | 280             | 420          | 560          | 700          | 840          | 980          |
| $V_{DC}$      | Maximum DC Blocking Voltage (V)  | 400             | 600          | 800          | 1000         | 1200         | 1400         |
| $I_{F(AV)}$   | Maximum average Forward Rectified Current @ $T_A = 40\text{ °C}$                                   | 2.0 A           |              |              |              |              |              |
| $I_{FSM}$     | Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | 50 A            |              |              |              |              |              |
| $R_{th(j-i)}$ | Typical Thermal Resistance (Note)  | 15 °C/W         |              |              |              |              |              |
| $R_{th(j-a)}$ |  | 40 °C/W         |              |              |              |              |              |
| $T_j$         | Operating Temperature Range  | -55 to + 150 °C |              |              |              |              |              |
| $T_{stg}$     | Storage Temperature Range  | -55 to + 150 °C |              |              |              |              |              |

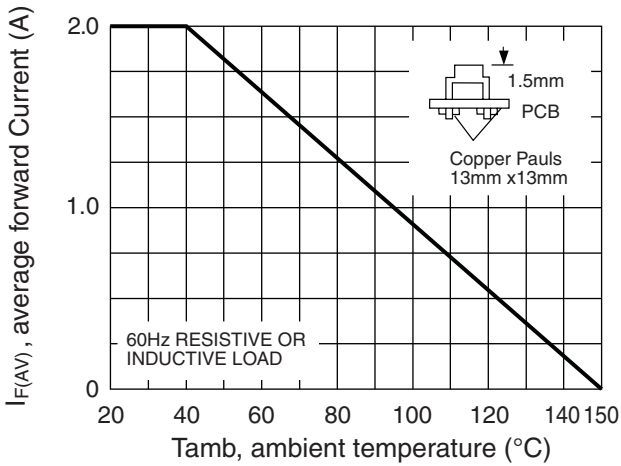
### Electrical Characteristics at $T_{amb} = 25\text{ °C}$

|       |   | DBLS<br>204G              | DBLS<br>205G | DBLS<br>206G | DBLS<br>207G | DBLS<br>208G | DBLS<br>209G |
|-------|---|---------------------------|--------------|--------------|--------------|--------------|--------------|
| $V_F$ | Max. Instantaneous Forward Voltage @ 1.5A   | 1.15 V                    |              |              |              | 1.30 V       |              |
| $I_R$ | Maximum DC Reverse Current @ $T_A = 25\text{ °C}$<br>at Rated DC Blocking Voltage @ $T_A = 125\text{ °C}$ | 10 $\mu$ A<br>500 $\mu$ A |              |              |              |              |              |

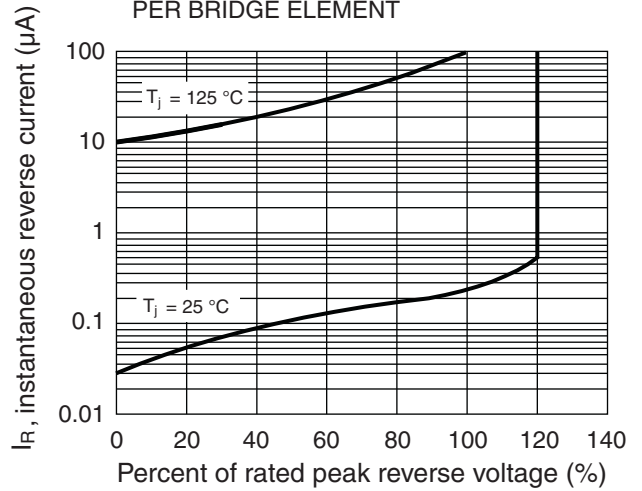
Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 10 x 10mm Copper Pads.

**Rating And Characteristic Curves**

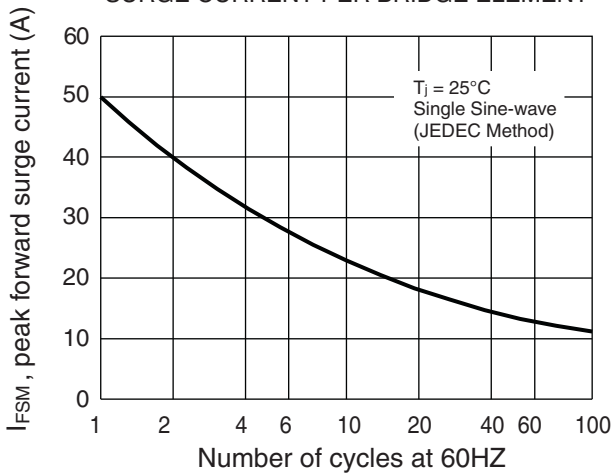
**MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



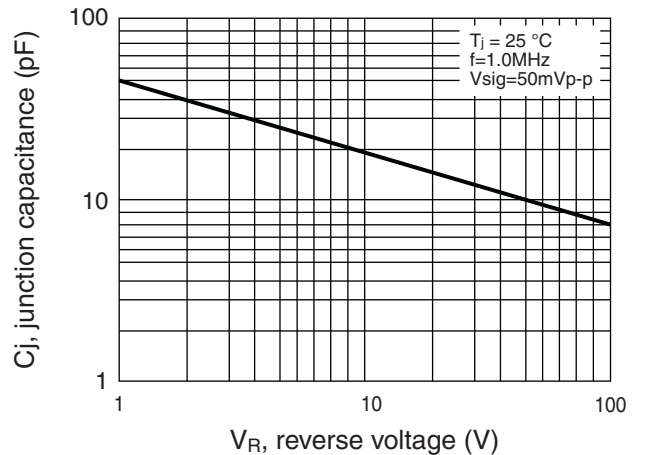
**TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT**



**MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT**



**TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT**



**TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT**

