

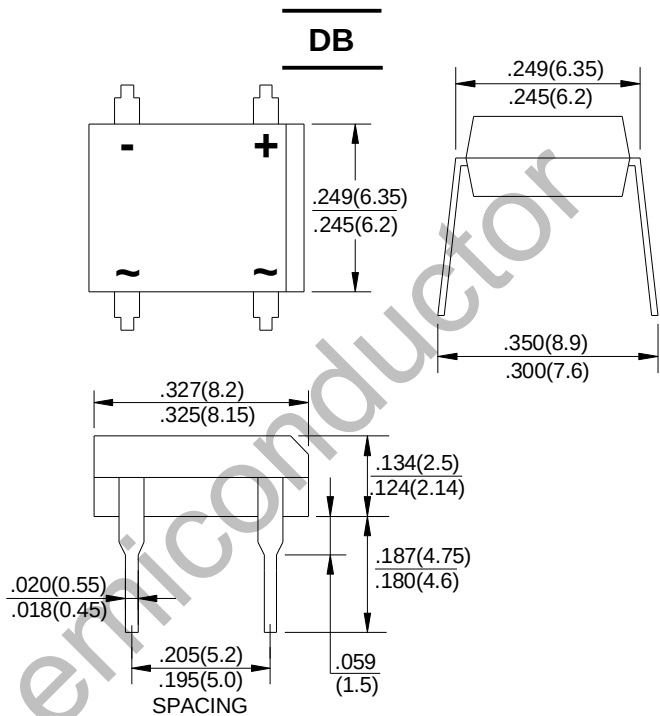
| SURFACE MOUNT<br>GLASS PASSIVATED<br>BRIDGE RECTIFIERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   | REVERSE VOLTAGE - 50 to 1000Volts<br>FORWARD CURRENT - 2.0 Amperes                                                                                   |       |       |       |       |       |       |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------------------|
| <div>FEATURES</div> <ul style="list-style-type: none"><li>●Rating to 1000V PRV</li><li>●Ideal for printed circuit board</li><li>●Low forward voltage drop,high current capability</li><li>●Reliable low cost construction utilizing molded plastic technique results in inexpensive product</li><li>●Lead tin Pb/Sn copper</li><li>●The plastic material has UL flammability classification 94V-0</li></ul> <div>MECHANICAL DATA</div> <ul style="list-style-type: none"><li>●Polarit: As marked on Body</li><li>●Weight: 0.02 ounces,0.38 gras</li><li>●Mounting position: Any</li></ul> |                   | <div><p>DB</p><p>Dimensions in inches and (millimeters)</p></div> |       |       |       |       |       |       |                  |
| MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                                                                                                                                                      |       |       |       |       |       |       |                  |
| Rating at 25°C ambient temperature unless otherwise specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                                                                                                                                                      |       |       |       |       |       |       |                  |
| Single phase, half wave ,60Hz, resistive or inductive load.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                                                                                                                                      |       |       |       |       |       |       |                  |
| For capacitive load, derate current by 20%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                                                                                      |       |       |       |       |       |       |                  |
| CHARACTERISTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SYMBOL            | DB201                                                                                                                                                | DB202 | DB203 | DB204 | DB205 | DB206 | DB207 | UNIT             |
| Maximum Recurrent Peak Reverse Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V <sub>RRM</sub>  | 50                                                                                                                                                   | 100   | 200   | 400   | 600   | 800   | 1000  | V                |
| Maximum RMS Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | V <sub>RMS</sub>  | 35                                                                                                                                                   | 70    | 140   | 280   | 420   | 560   | 700   | V                |
| Maximum DC Blocking Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V <sub>DC</sub>   | 50                                                                                                                                                   | 100   | 200   | 400   | 600   | 800   | 1000  | V                |
| Maximum Average Forward Rectified Current<br>@T <sub>A</sub> =40°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I <sub>(AV)</sub> | 2.0                                                                                                                                                  |       |       |       |       |       |       | A                |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load (JEDEC .Method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | I <sub>FSM</sub>  | 60                                                                                                                                                   |       |       |       |       |       |       | A                |
| Maximum Forward Voltage at 2.0A DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V <sub>F</sub>    | 1.1                                                                                                                                                  |       |       |       |       |       |       | V                |
| Maximum DC Reverse Current<br>@T <sub>J</sub> =25°C<br>at Rated DC Blocking Voltage @T <sub>J</sub> =125°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I <sub>R</sub>    | 10<br>500                                                                                                                                            |       |       |       |       |       |       | uA               |
| I <sup>2</sup> t Rating for Fusing (t<8.3ms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | I <sup>2</sup> t  | 10.4                                                                                                                                                 |       |       |       |       |       |       | A <sup>2</sup> s |
| Typical Junction capacitance Per Element(Note1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | C <sub>J</sub>    | 25                                                                                                                                                   |       |       |       |       |       |       | pF               |
| Typical Thermal Resistance (Note2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R <sub>θJC</sub>  | 40                                                                                                                                                   |       |       |       |       |       |       | °C/W             |
| Operating Temperature Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T <sub>J</sub>    | -55 to +150                                                                                                                                          |       |       |       |       |       |       | °C               |
| Storage Temperature Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | T <sub>STG</sub>  | -55 to +150                                                                                                                                          |       |       |       |       |       |       | °C               |
| Note:1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                                      |       |       |       |       |       |       |                  |
| 2. Thermal resistance from junction to ambient mounted on P.C.B<br>with 0.5*0.5"(13*13mm) copper pads.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                                                                                                                                      |       |       |       |       |       |       |                  |

FIG.1-DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

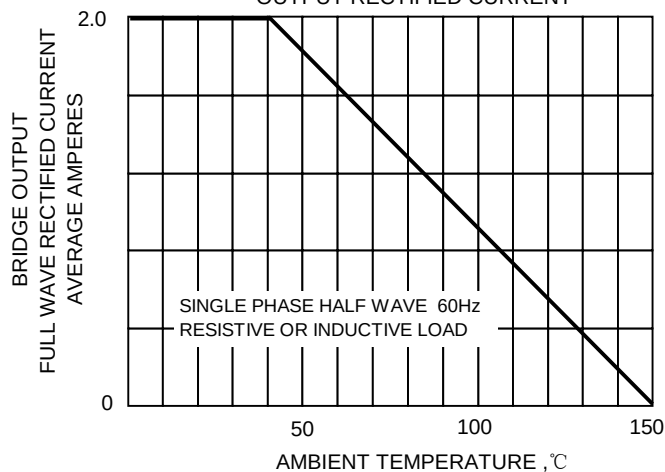


FIG.2-MAXIMUM NON-REPETITIVE PEAK  
FORWARD SURGE CURRENT

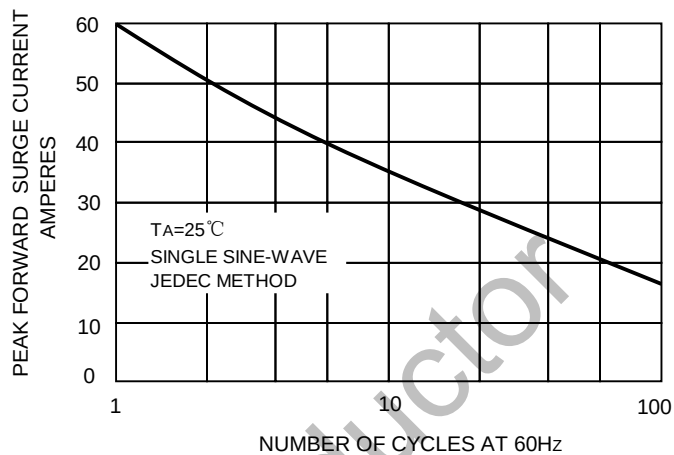


FIG.3-TYPICAL JUNCTION CAPACITANCE

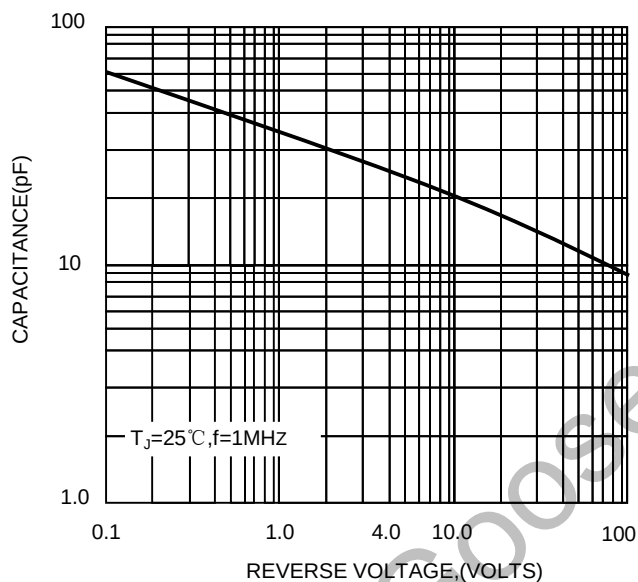


FIG.4-TYPICAL FORWARD CHARACTERISTICS

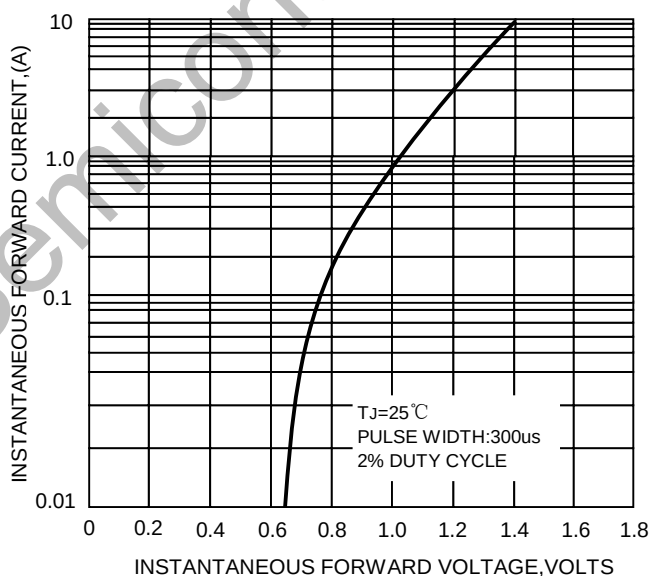


FIG.5-TYPICAL REVERSE CHARACTERISTICS

