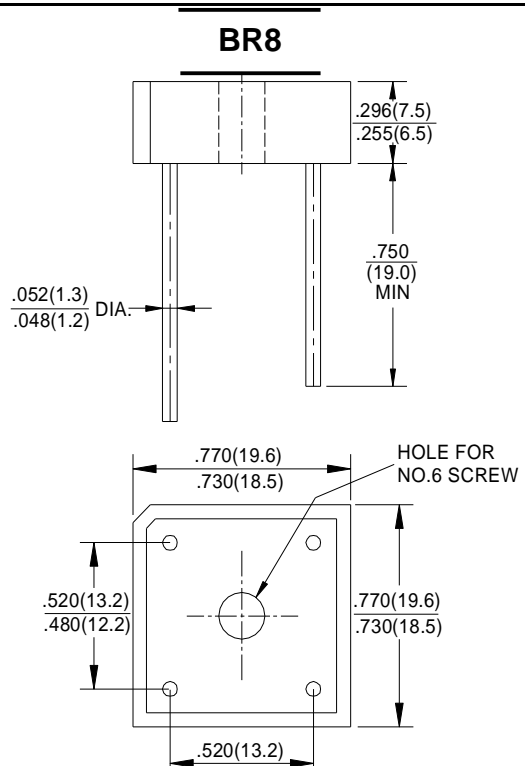




# BR10005S thru BR1010S

|  |   |
|--|---|
| <b>SILICON BRIDGE RECTIFIERS</b>   | REVERSE VOLTAGE - <b>50 to 1000Volts</b><br>FORWARD CURRENT - <b>10.0 Amperes</b>   |
| <b>FEATURES</b> <ul style="list-style-type: none"> <li>● Surge overload rating -240 amperes peak</li> <li>● Low forward voltage drop</li> <li>● Small size; simple installation</li> <li>● Sliver plated copper leads</li> <li>● Mounting position: Any</li> </ul> |  <p style="text-align: center;">Polarity shown on side of case, Positive lead by beveled corner.<br/>                 Dimensions in inches and (millimeters)</p> |

## 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            | BR 10005S   | BR 1001S | BR 1002S | BR 1004S | BR 1006S | BR 1008S | BR 1010S | UNIT |
|--|-------------------|-------------|----------|----------|----------|----------|----------|----------|------|
| Maximum Recurrent Peak Reverse Voltage   | V <sub>RRM</sub>  | 50          | 100      | 200      | 400      | 600      | 800      | 1000     | v    |
| Maximum RMS Bridge Input Voltage   | V <sub>RMS</sub>  | 35          | 70       | 140      | 280      | 420      | 560      | 700      | v    |
| Maximum Average Forward Rectified Output Current at T <sub>A</sub> =50°C                 | I <sub>(AV)</sub> | 10.0        |          |          |          |          |          |          | A    |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load | I <sub>FSM</sub>  | 240         |          |          |          |          |          |          | A    |
| Maximum Forward Voltage Drop<br>Per Bridge Element at 5.0A Peak                          | V <sub>F</sub>    | 1.0         |          |          |          |          |          |          | V    |
| Maximum Reverse Current at Rated T <sub>J</sub> =25°C                                    | I <sub>R</sub>    | 10.0        |          |          |          |          |          |          | μA   |
| DC Blocking Voltage Per Element T <sub>J</sub> =100°C                                    |                   | 1.0         |          |          |          |          |          |          | mA   |
| Operating Temperature Range  | T <sub>J</sub>    | -55 to +150 |          |          |          |          |          |          | °C   |
| Storage Temperature Range  | T <sub>STG</sub>  | -55 to +150 |          |          |          |          |          |          | °C   |

**RATING AND CHARACTERISTIC CURVES**  
**BR1005S thru BR1010S**



FIG.1-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

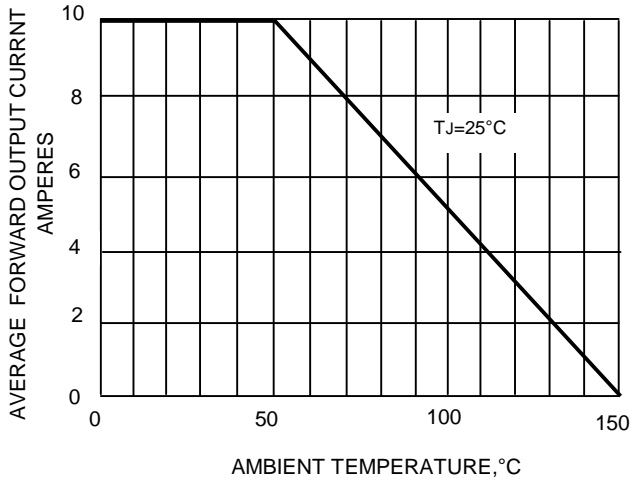


FIG.2-MAXIMUM FORWARD SURGE CURRENT

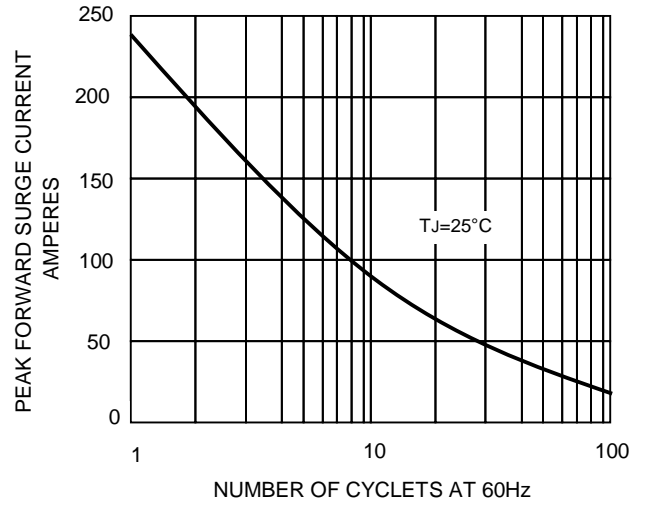


FIG.3-TYPICAL FORWARD CHARACTERISTICS

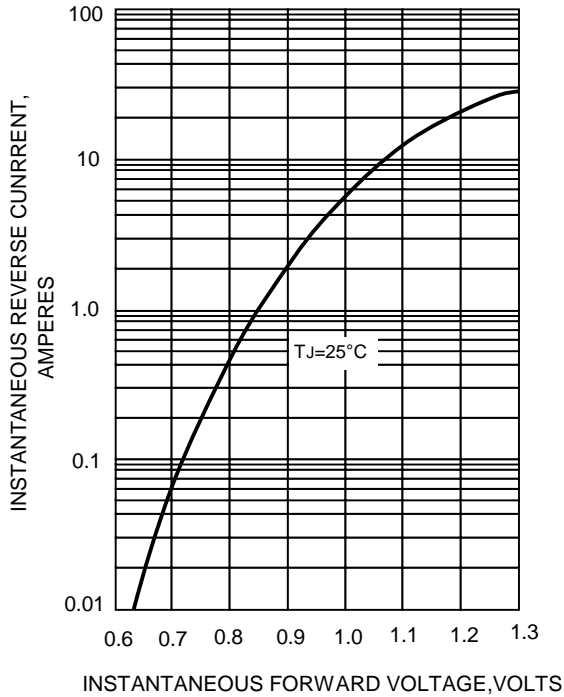


FIG.4-TYPICAL REVERSE CHARACTERISTICS

