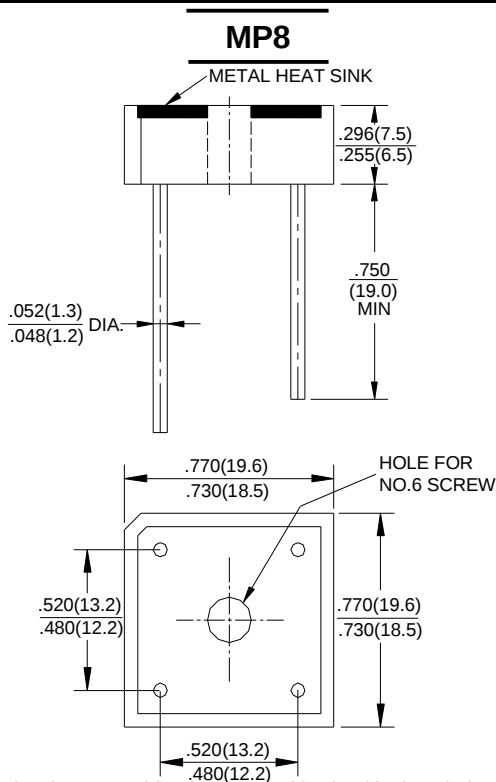


### SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts  
FORWARD CURRENT - 10.0 Amperes

#### FEATURES

- Surge overload rating -240 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Silver plated copper leads
- Mounting position: Any



Polarity shown on side of case, Positive lead by beveled corner.

Dimensions in inches and (millimeters)

#### 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           | MP10005            | MP1001 | MP1002 | MP1004 | MP1006 | MP1008 | MP1010 | 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> | 30                 | 70     | 140    | 280    | 420    | 560    | 700    | V        |
| Maximum Average<br>Forward Rectified<br>Output Current at<br>T <sub>c</sub> =50°C<br>T <sub>A</sub> =100°C (Note1)<br>T <sub>A</sub> =50°C (Note2) | I <sub>AV</sub>  | 10.0<br>6.0<br>6.0 |        |        |        |        |        |        | 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<br>DC Blocking Voltage Per Element<br>T <sub>A</sub> =25°C<br>T <sub>A</sub> =100°C                               | I <sub>R</sub>   | 10.0<br>1.0        |        |        |        |        |        |        | uA<br>mA |
| Operating Temperature Rang                                                                                                                         | T <sub>J</sub>   | -55 to +125        |        |        |        |        |        |        | °C       |
| Storage Temperature Rang                                                                                                                           | T <sub>STG</sub> | -55 to +125        |        |        |        |        |        |        | °C       |

Notes:1.Unit mounted on metal chassis

2. Unit mounted on P.C. board

FIG.1-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

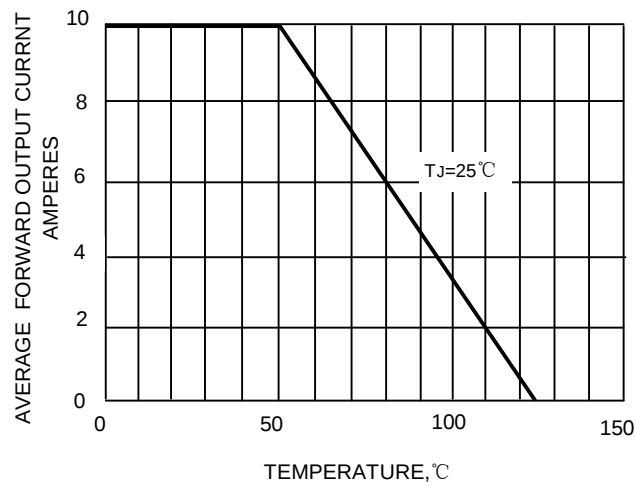


FIG.2-MAXIMUM FORWARD SURGE CURRENT

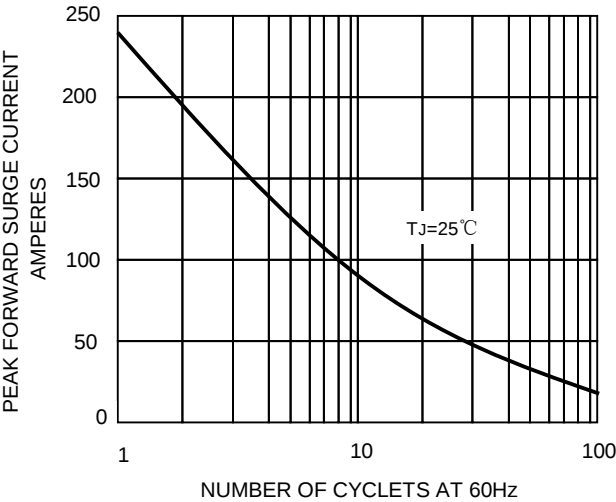


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

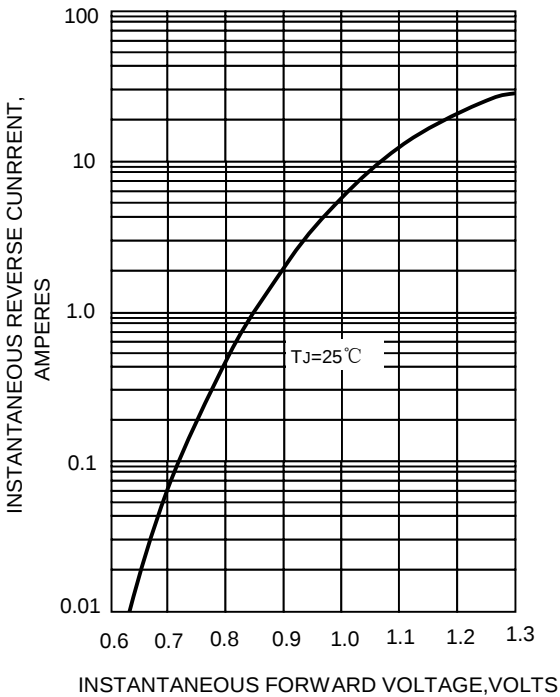


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

