

# Bridge Rectifiers (Glass Passivated)

Absolute Maximum Ratings\*

 $T_A = 25^{\circ}C$  unless otherwise noted

| Symbol             | Parameter   | Value       |     |     |     |     |     | Units |   |
|--------------------|---|-------------|-----|-----|-----|-----|-----|-------|---|
|                    |   | 005G        | 01G | 02G | 04G | 06G | 08G | 10G   |   |
| V <sub>RRM</sub>   | Maximum Repetitive Reverse Voltage  | 50          | 100 | 200 | 400 | 600 | 800 | 1000  | V |
| V <sub>RMS</sub>   | Maximum RMS Bridge Input Voltage  | 35          | 70  | 140 | 280 | 420 | 560 | 700   | V |
| V <sub>R</sub>     | DC Reverse Voltage (Rated V <sub>R</sub> )                                | 50          | 100 | 200 | 400 | 600 | 800 | 1000  | V |
| I <sub>F(AV)</sub> | Average Rectified Forward Current, @ $T_A = 50^{\circ}C$                  |             |     |     | 2.0 |     |     |       | A |
| I <sub>FSM</sub>   | Non-repetitive Peak Forward Surge Current<br>8.3 ms Single Half-Sine-Wave | 60          |     |     | А   |     |     |       |   |
| T <sub>stg</sub>   | Storage Temperature Range   | -55 to +150 |     |     | °C  |     |     |       |   |
| TJ                 | Operating Junction Temperature  | -55 to +150 |     |     | °C  |     |     |       |   |

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

## **Thermal Characteristics**

| Symbol              | Parameter  | Value | Units |
|---------------------|--|-------|-------|
| PD                  | Power Dissipation                                    | 3.13  | W     |
| $R_{	ext{	hetaJA}}$ | Thermal Resistance, Junction to Ambient,* per<br>leg | 40    | °C/W  |
| R <sub>eJL</sub>    | Thermal Resistance, Junction to Lead,* per leg       | 15    | °C/W  |

\*Device mounted on PCB with 0.375" (9.5 mm) lead length.

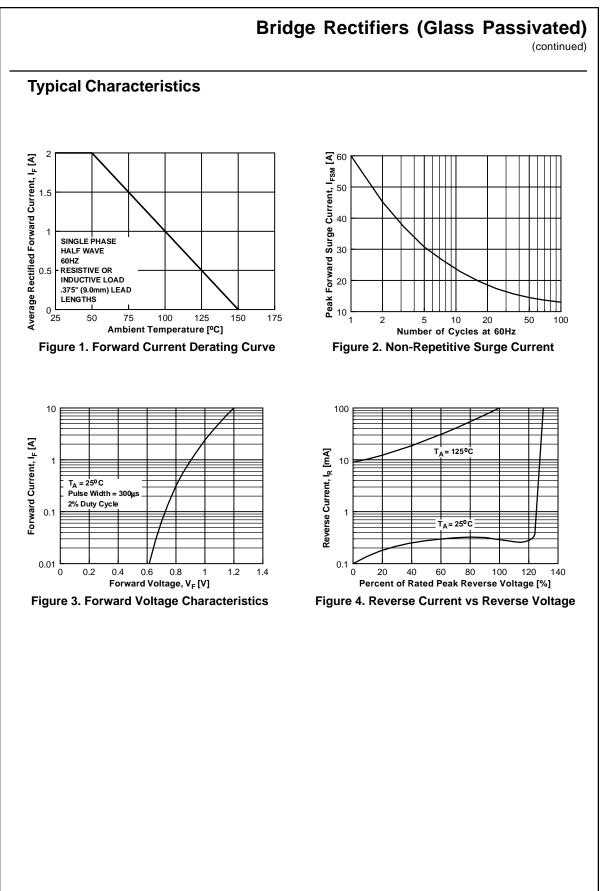
## Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

| Symbol Parameter |  | Device     | Units            |  |
|------------------|--|------------|------------------|--|
| V <sub>F</sub>   | Forward Voltage, per bridge @ 2.0 A  | 1.1        | V                |  |
| I <sub>R</sub>   | Reverse Current, per leg @ rated V <sub>R</sub><br>$T_A = 25^{\circ}C$<br>$T_A = 125^{\circ}C$ | 5.0<br>500 | μΑ<br>μΑ         |  |
|                  | $1^{2}$ t rating for fusing t < 8.3 ms   | 10         | A <sup>2</sup> s |  |
| C <sub>T</sub>   | Total Capacitance, per leg<br>$V_R = 4.0 V, f = 1.0 MHz$                                       | 19         | pF               |  |

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2W005G -2W10G, Rev. C

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|---------------------------|---|
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