

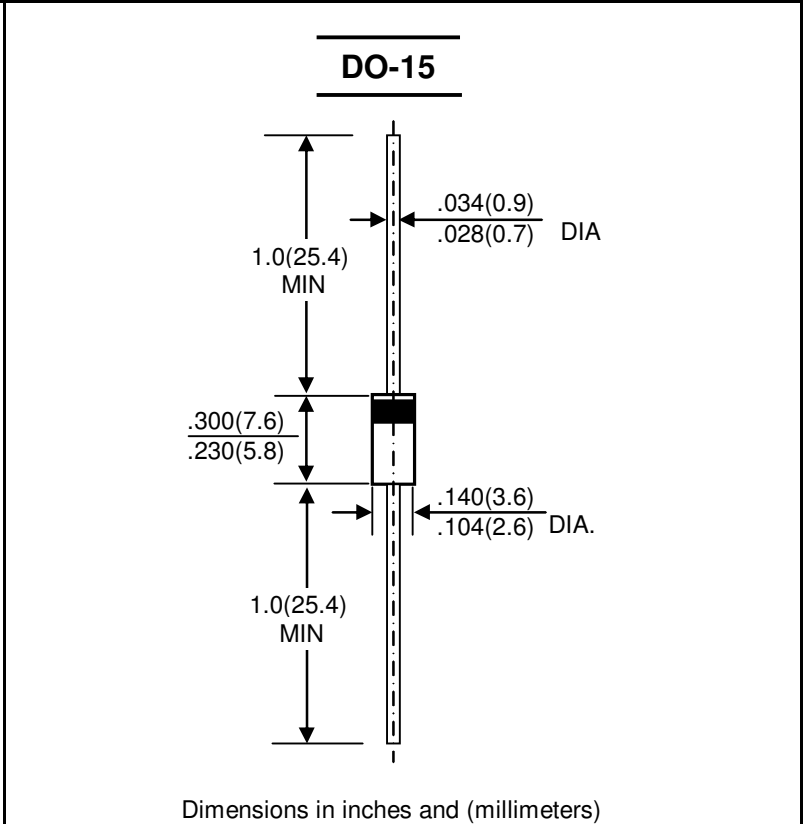
|  |   |
|--|---|
| <b>HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS</b> | <b>REVERSE VOLTAGE - 50 to 1000 Volts</b><br><b>FORWARD CURRENT - 2.0 Amperes</b> |
|--|---|

**FEATURES**

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

**MECHANICAL DATA**

- Case: JEDEC DO-15 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.015 ounces , 0.4 grams
- Mounting position: Any



**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            | HER 201G    | HER 202G | HER 203G | HER 204G | HER 205G | HER 206G | HER 207G | HER 208G | UNIT |
|--|-------------------|-------------|----------|----------|----------|----------|----------|----------|----------|------|
| Maximum Recurrent Peak Reverse Voltage   | V <sub>RRM</sub>  | 50          | 100      | 200      | 300      | 400      | 600      | 800      | 1000     | V    |
| Maximum RMS Voltage  | V <sub>RMS</sub>  | 35          | 70       | 140      | 210      | 280      | 420      | 560      | 700      | V    |
| Maximum DC Blocking Voltage  | V <sub>DC</sub>   | 50          | 100      | 200      | 300      | 400      | 600      | 800      | 1000     | V    |
| Maximum Average Forward Rectified Current @T <sub>A</sub> =50 °C                                     | I <sub>(AV)</sub> | 2.0         |          |          |          |          |          |          |          | A    |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)     | I <sub>FSM</sub>  | 60          |          |          |          |          |          |          |          | A    |
| Peak Forward Voltage at 2.0A DC  | V <sub>F</sub>    | 1.0         |          | 1.3      |          | 1.7      |          |          |          | V    |
| Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C | I <sub>R</sub>    | 5.0         |          |          |          | 100      |          |          |          | µA   |
| Maximum Reverse Recovery Time(Note 1)  | T <sub>RR</sub>   | 50          |          |          |          | 75       |          |          |          | nS   |
| Typical Junction Capacitance (Note2)   | C <sub>J</sub>    | 50          |          |          |          | 30       |          |          |          | pF   |
| Typical Thermal Resistance (Note3)   | R <sub>θJA</sub>  | 25          |          |          |          |          |          |          |          | °C/W |
| Operating Temperature Range  | T <sub>J</sub>    | -55 to +150 |          |          |          |          |          |          |          | °C   |
| Storage Temperature Range  | T <sub>STG</sub>  | -55 to +150 |          |          |          |          |          |          |          | °C   |

NOTES: 1.Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1A , I<sub>RR</sub>=0.25A

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

3.Thermal resistance junction to ambient

REV. 1, 30-Dec-2011

FIG. 1 – FORWARD CURRENT DERATING CURVE

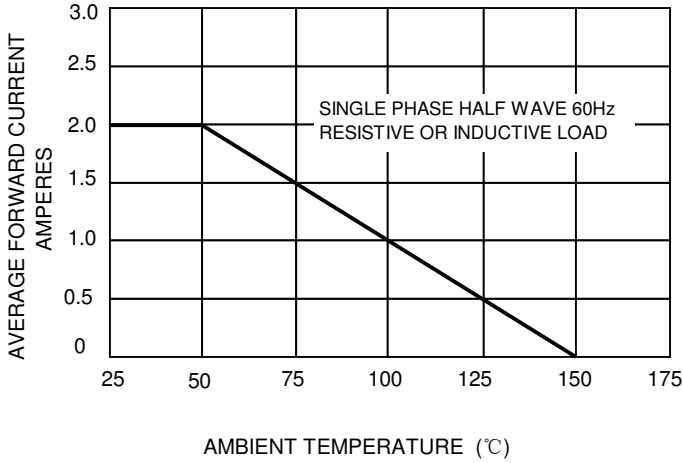


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

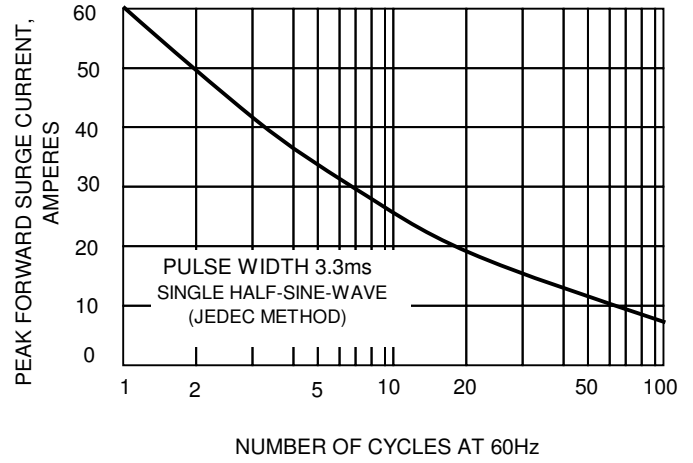


FIG.3 – TYPICAL JUNCTION CAPACITANCE

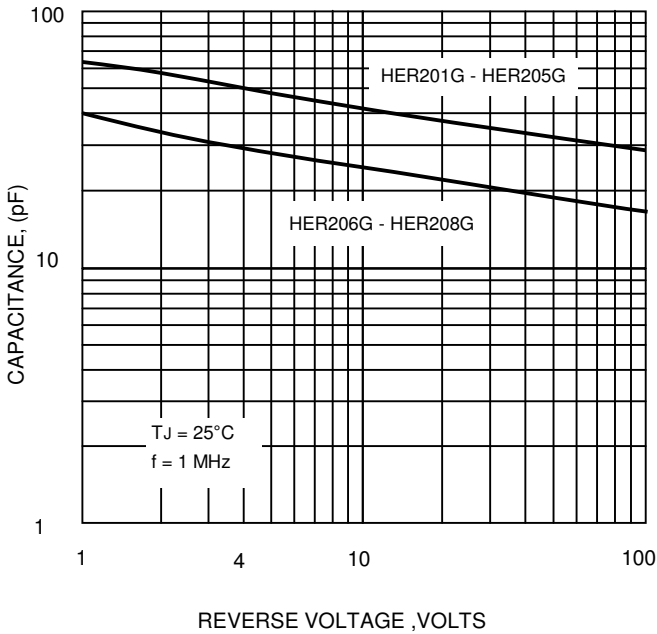


FIG.4-TYPICAL FORWARD CHARACTERISTICS

