

# Glass Passivated Rectifier Diode

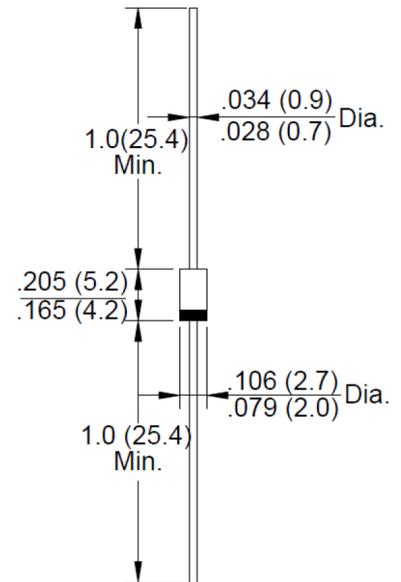
**V<sub>RRM</sub> - 50 Volts, 1A**

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**RoHS  
Compliant**



DO-204AL (DO-41)



## Features

- Low cost
- Fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Meet UL flammability classification 94V-0
- Lead free
- Case style: DO-204AL (DO-41) molded plastic

## 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            | Values      | Unit |
|--|-------------------|-------------|------|
| Maximum Repetitive Peak Reverse Voltage  | V <sub>RRM</sub>  | 50          | V    |
| Maximum RMS Voltage  | V <sub>RMS</sub>  | 35          |      |
| Maximum DC Blocking Voltage  | V <sub>DC</sub>   | 50          |      |
| Maximum Average Forward Rectified Current @ T <sub>A</sub> = 50°C  | I <sub>(AV)</sub> | 1           | A    |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)       | I <sub>FSM</sub>  | 30          | A    |
| Peak Forward Voltage at 1A DC (Note1)  | V <sub>F</sub>    | 1.3         | V    |
| Maximum DC Reverse Current @ T <sub>J</sub> = 25°C at Rated DC Blocking Voltage @ T <sub>J</sub> = 125°C | I <sub>R</sub>    | 5<br>100    | μA   |
| Maximum Reverse Recovery Time (Note 2)   | T <sub>RR</sub>   | 200         | nS   |
| Typical Junction Capacitance (Note 3)  | C <sub>J</sub>    | 15          | pF   |
| Typical Thermal Resistance Junction to Ambient   | R <sub>θJA</sub>  | 50          | °C/W |
| Operating Junction Temperature Range   | T <sub>J</sub>    | -55 to +150 | °C   |
| Storage Temperature Range  | T <sub>STG</sub>  | -55 to +150 | °C   |

### Notes:

1. 300μS pulse width, 2%duty cycle
2. Measured with I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1A, I<sub>RR</sub> = 0.25A
3. Measured at 1MHz and applied reverse voltage of 4V DC
4. The typical data above is for reference only

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## Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

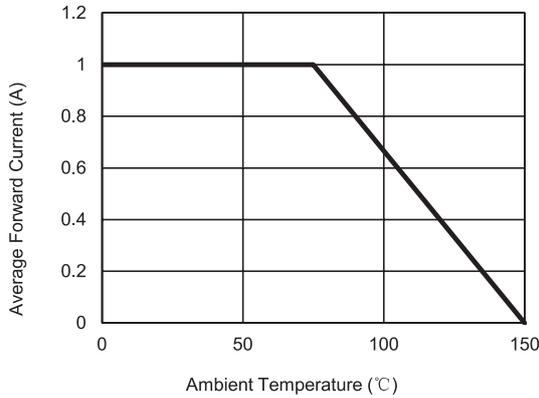


Fig. 2 - Maximum Non-Repetitive Surge Current

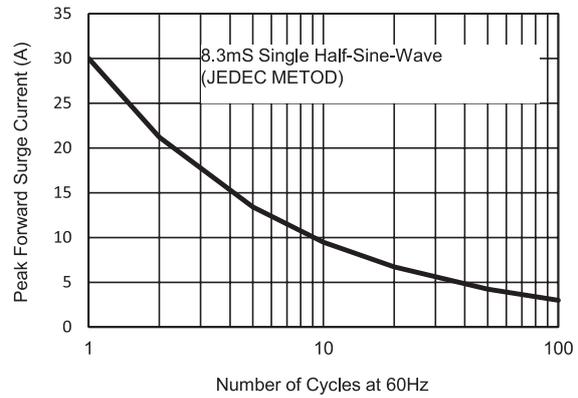


Fig. 3 - Typical Junction Capacitance

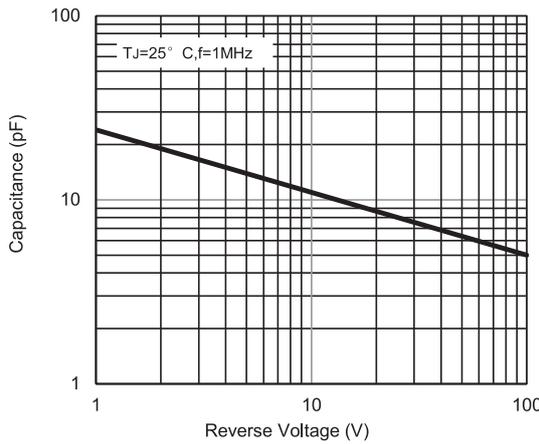
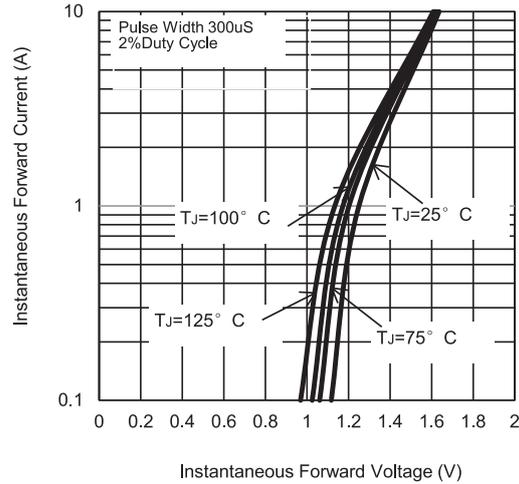


Fig. 4 - Typical Forward Characteristics



### Part Number Table

| Description                                | Part Number |
|--|-------------|
| Rectifier Diode, 50V, 1A, DO-204AL (DO-41) | 1N4933G     |

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