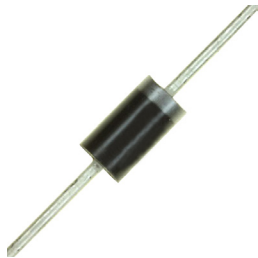


# Glass Passivated Rectifier Diode

## $V_{RRM} = 50$ Volts, 1A

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### 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%.

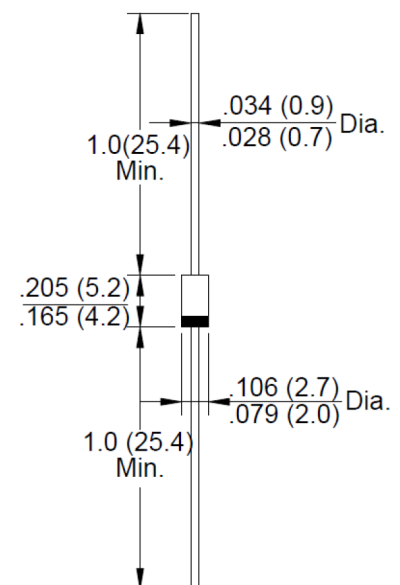
| Characteristics                                                                                                       | Symbol          | Values      | Unit                 |
|-----------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------|
| Maximum Repetitive Peak Reverse Voltage                                                                               | $V_{RRM}$       | 50          | V                    |
| Maximum RMS Voltage                                                                                                   | $V_{RMS}$       | 35          |                      |
| Maximum DC Blocking Voltage                                                                                           | $V_{DC}$        | 50          |                      |
| Maximum Average Forward Rectified Current @ $T_A = 50^{\circ}\text{C}$                                                | $I_{(AV)}$      | 1           | A                    |
| Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)                    | $I_{FSM}$       | 30          | A                    |
| Peak Forward Voltage at 1A DC (Note1)                                                                                 | $V_F$           | 1.3         | V                    |
| Maximum DC Reverse Current @ $T_J = 25^{\circ}\text{C}$<br>at Rated DC Blocking Voltage @ $T_J = 125^{\circ}\text{C}$ | $I_R$           | 5<br>100    | $\mu\text{A}$        |
| Maximum Reverse Recovery Time (Note 2)                                                                                | $T_{RR}$        | 200         | nS                   |
| Typical Junction Capacitance (Note 3)                                                                                 | $C_J$           | 15          | pF                   |
| Typical Thermal Resistance Junction to Ambient                                                                        | $R_{\theta JA}$ | 50          | $^{\circ}\text{C/W}$ |
| Operating Junction Temperature Range                                                                                  | $T_J$           | -55 to +150 | $^{\circ}\text{C}$   |
| Storage Temperature Range                                                                                             | $T_{STG}$       | -55 to +150 | $^{\circ}\text{C}$   |

#### Notes:

1. 300 $\mu\text{S}$  pulse width, 2%duty cycle
2. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1\text{A}$ ,  $I_{RR} = 0.25\text{A}$
3. Measured at 1MHz and applied reverse voltage of 4V DC
4. The typical data above is for reference only

**RoHS  
Compliant**

DO-204AL (DO-41)



Dimensions : Inches (Millimetres)

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### Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

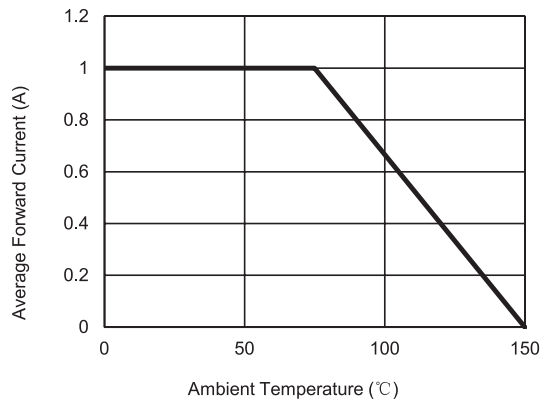


Fig. 2 - Maximum Non-Repetitive Surge Current

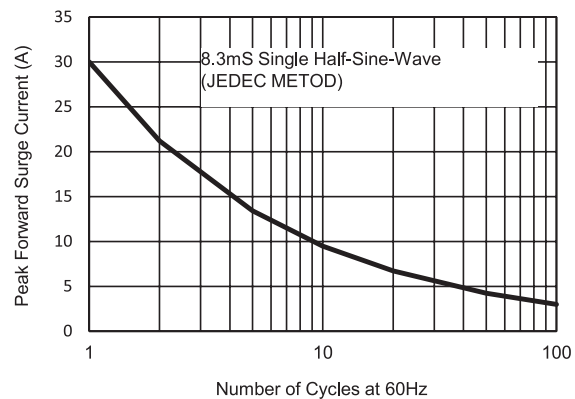


Fig. 3 - Typical Junction Capacitance

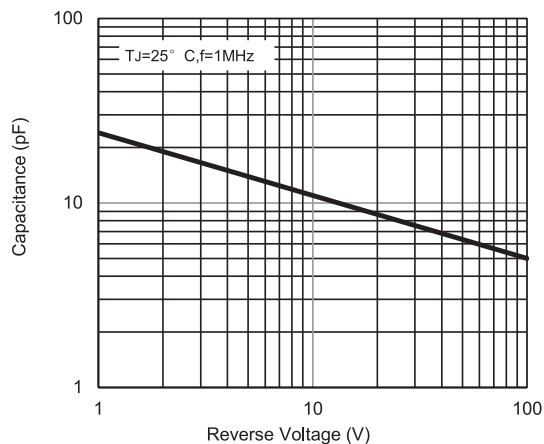
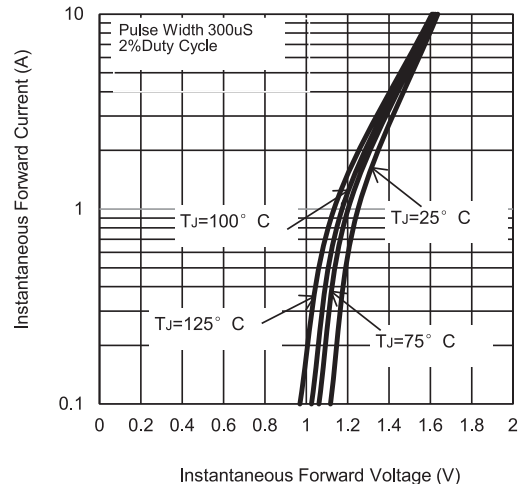


Fig. 4 - Typical Forward Characteristics



### Part Number Table

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

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