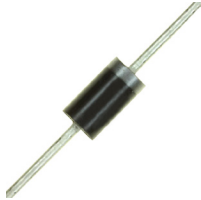


Glass Passivated Rectifier Diodes

V_{RRM} - 50 Volts to 1000 Volts, 1A

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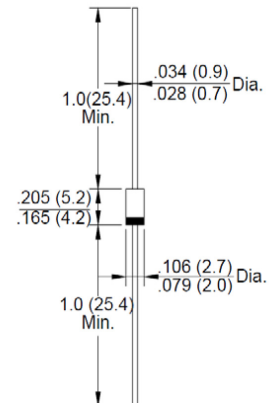
**RoHS
Compliant**



Features

- Low cost
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0
- Lead free
- Case style: DO-204AL (DO-41) molded plastic

DO-204AL (DO-41)



Dimensions : Inches (Millimetres)

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	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current @ T _A = 75°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
I ² _t Rating for Fusing (t<8.3mS)	I ² _t	3.7							A ² s
Peak Forward Voltage at 1A DC (Note1)	V _F	1.1							V
Max. DC Reverse Current @ T _J =25°C	I _R	5							μA
Rated DC Blocking Voltage @ T _J =125°C		50							
Typical Junction Capacitance (Note 2)	C _J	15							pF
Typical Thermal Resistance Junction to Case	R _{θJC}	50							°C/W
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}								

Notes: 1. 300μS pulse width, 2%duty cycle

2. Measured at 1 MHz and applied reverse voltage of 4V DC

3. The typical data above is for reference only.

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Glass Passivated Rectifier Diodes

V_{RRM} - 50 Volts to 1000 Volts, 1A

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Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

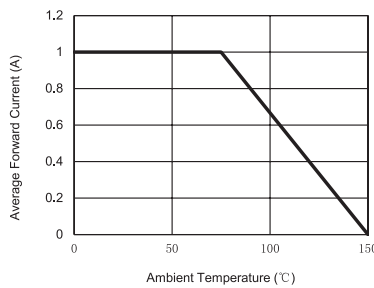


Fig. 2 - Maximum Non-Repetitive Surge Current

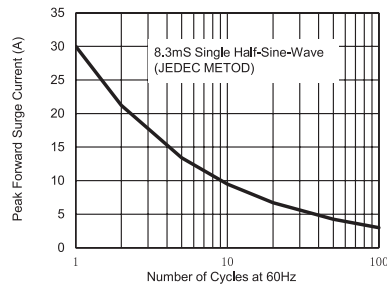


Fig. 3 - Typical Reverse Characteristics

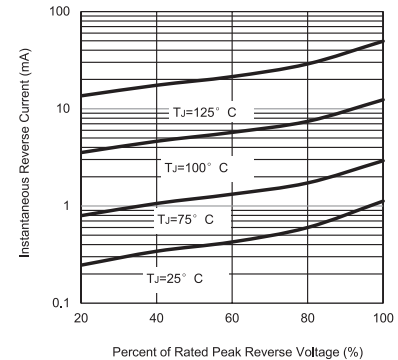


Fig. 4 - Typical Forward Characteristics

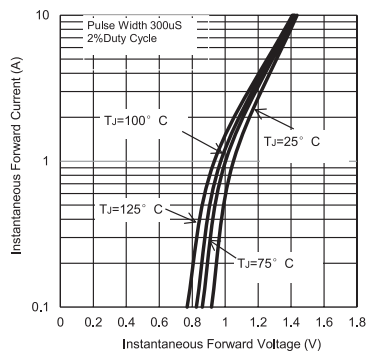
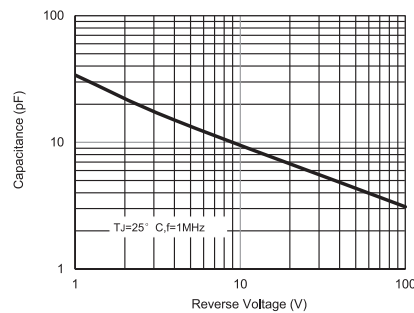


Fig. 5 - Typical Junction Capacitance



Part Number Table

Description	Part Number
Rectifier Diode, 50V, 1A, DO-204AL (DO-41)	1N4001G
Rectifier Diode, 100V, 1A, DO-204AL (DO-41)	1N4002G
Rectifier Diode, 200V, 1A, DO-204AL (DO-41)	1N4003G
Rectifier Diode, 400V, 1A, DO-204AL (DO-41)	1N4004G
Rectifier Diode, 600V, 1A, DO-204AL (DO-41)	1N4005G
Rectifier Diode, 800V, 1A, DO-204AL (DO-41)	1N4006G
Rectifier Diode, 1kV, 1A, DO-204AL (DO-41)	1N4007G

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