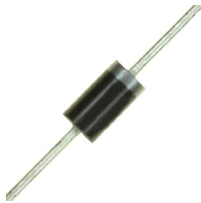


Glass Passivated Rectifier Diodes

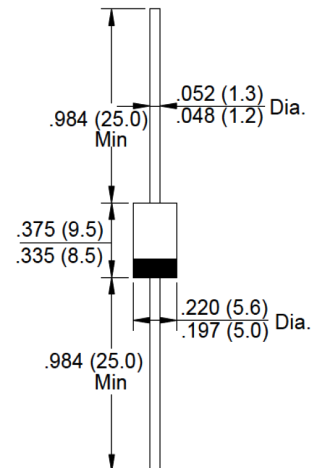
V_{RRM} - 100 Volts to 1000 Volts, 3A

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**RoHS
Compliant**

DO-201AA (DO-27)



Dimensions : Inches (Millimetres)

Features

- Low cost
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- The plastic material carries UL recognition 94V-0
- Lead free
- Case style: DO-201AD (DO-27) 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	1N5401G	1N5402G	1N5404G	1N5406G	1N5407G	1N5408G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current @ T _A = 55°C	I _(AV)	3						A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	125						A
I ² t Rating for Fusing (t<8.3mS)	I ² t	64.8						A ² s
Peak Forward Voltage at 3A DC (Note1)	V _F	1.1						V
Max. DC Reverse Current @ T _J =25°C Rated DC Blocking Voltage @ T _J =125°C	I _R	5 200						µA
Typical Junction Capacitance (Note 2)	C _J	50			35			pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	15						°C/W
Operating Junction Temperature Range	T _J	-55 to +150						°C
Storage Temperature Range	T _{STG}							

Notes:

1. 300 μS 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} - 100 Volts to 1000 Volts, 3A

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Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

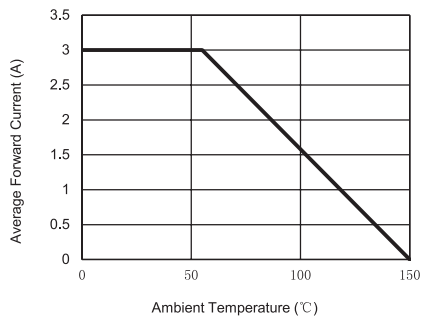


Fig. 2 - Maximum Non-Repetitive Surge Current

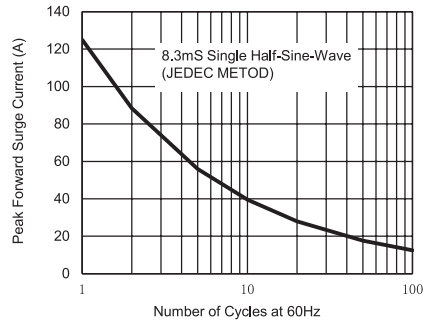


Fig. 3 - Typical Reverse Characteristics

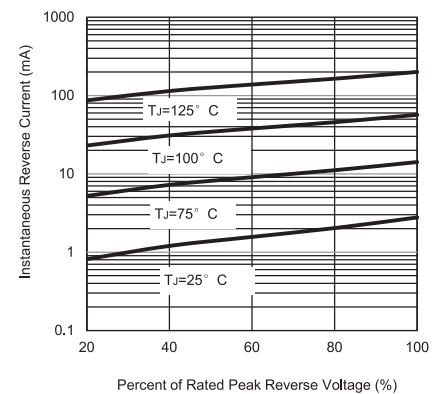


Fig. 4 - Typical Forward Characteristics

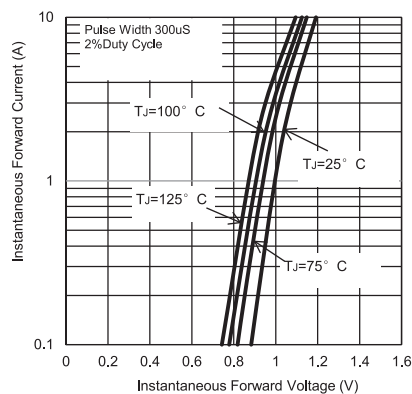
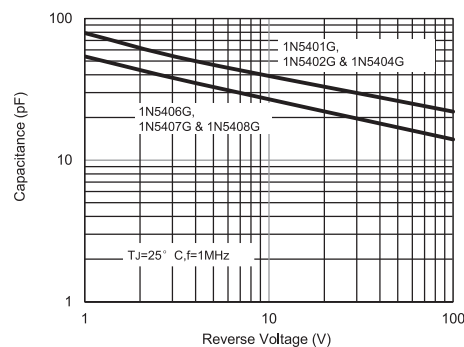


Fig. 5 - Typical Junction Capacitance



Part Number Table

Description	Part Number
Rectifier Diode, 100V, 3A, DO-201AA (DO-27)	1N5401G
Rectifier Diode, 200V, 3A, DO-201AA (DO-27)	1N5402G
Rectifier Diode, 400V, 3A, DO-201AA (DO-27)	1N5404G
Rectifier Diode, 600V, 3A, DO-201AA (DO-27)	1N5406G
Rectifier Diode, 800V, 3A, DO-201AA (DO-27)	1N5407G
Rectifier Diode, 1kV, 3A, DO-201AA (DO-27)	1N5408G

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