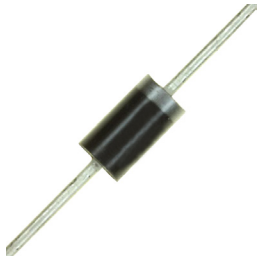


Glass Passivated Rectifier Diodes

V_{RRM} - 50 Volts to 1000 Volts, 1.5A

multicomp PRO

**RoHS
Compliant**

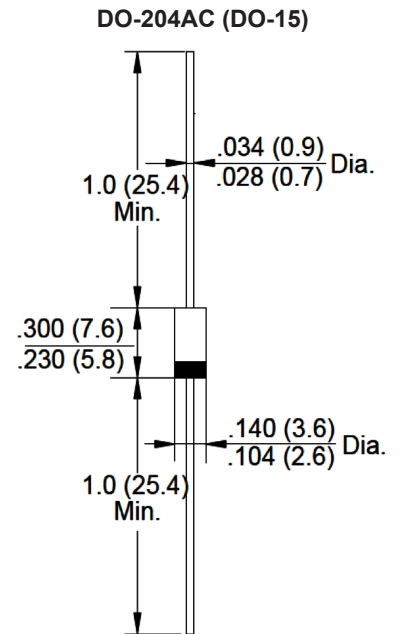


Features

- Low cost
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Meet UL flammability classification 94V-0
- Lead free
- Case style: DO-204AC (DO-15) 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%.



Dimensions : Inches (Millimetres)

Characteristics	Symbol	1N5391G	1N5392G	1N5399G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	700	
Maximum DC Blocking Voltage	V _{DC}	50	100	1000	
Maximum Average Forward Rectified Current @ T _A = 50°C	I _(AV)	1.5			A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50			A
I ² t Rating for Fusing (t<8.3mS)	I ² t	10.4			A ² s
Peak Forward Voltage at 1.5A DC (Note1)	V _F	1.1			V
Maximum DC Reverse Current @T _J = 25°C at Rated DC Blocking Voltage @T _J = 125°C	I _R	5 100			μA
Typical Junction Capacitance (Note2)	C _J	20			pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	26			°C/W
Operating Junction Temperature Range	T _J	-55 to +150			°C
Storage Temperature Range	T _{STG}	-55 to +150			°C

Notes:

1. 300μS pulse width, 2%duty cycle
2. Measured at 1MHz and applied reverse voltage of 4V DC
3. The typical data above is for reference only

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Farnell.com/exclusive-brands
Element14.com/exclusive-brands

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Glass Passivated Rectifier Diodes

V_{RRM} - 50 Volts to 1000 Volts, 1.5A



Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

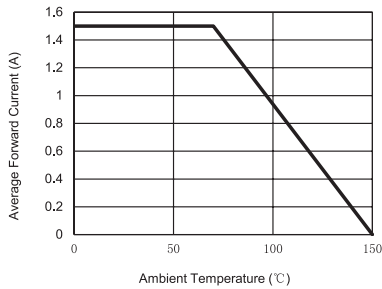


Fig. 2 - Maximum Non-Repetitive Surge Current

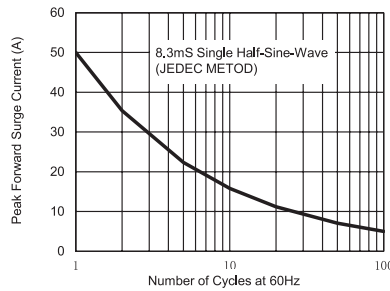


Fig. 3 - Typical Reverse Characteristics

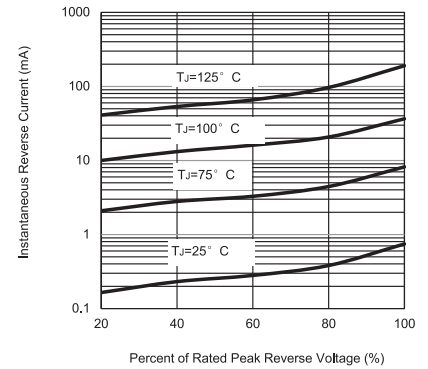


Fig. 4 - Typical Forward Characteristics

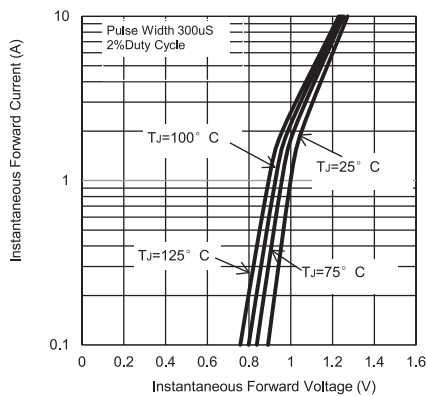
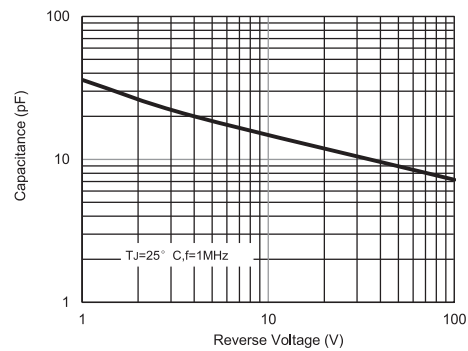


Fig. 5 - Typical Junction Capacitance



Part Number Table

Description	Part Number
Rectifier Diode, 50V, 1.5A, DO-204AC (DO-15)	1N5391G
Rectifier Diode, 100V, 1.5A, DO-204AC (DO-15)	1N5392G
Rectifier Diode, 1kV, 1.5A, DO-204AC (DO-15)	1N5399G

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