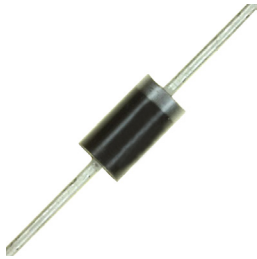


# Glass Passivated Rectifier Diodes

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

**multicomp** PRO

**RoHS  
Compliant**

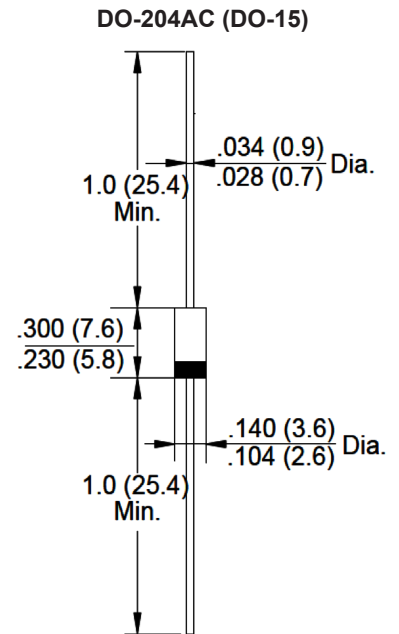


### Features

- 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 @ $T_A = 50^\circ\text{C}$	$I_{(AV)}$	1.5			A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50			A
$I^2t$ Rating for Fusing ( $t < 8.3\text{mS}$ )	$I^2t$	10.4			$\text{A}^2\text{s}$
Peak Forward Voltage at 1.5A DC (Note1)	$V_F$	1.1			V
Maximum DC Reverse Current @ $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_J = 125^\circ\text{C}$	$I_R$	5 100			$\mu\text{A}$
Typical Junction Capacitance (Note2)	$C_J$	20			pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	26			$^\circ\text{C}/\text{W}$
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 at 1MHz and applied reverse voltage of 4V DC
3. The typical data above is for reference only

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

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# Glass Passivated Rectifier Diodes

## V<sub>RRM</sub> - 50 Volts to 1000 Volts, 1.5A



### Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

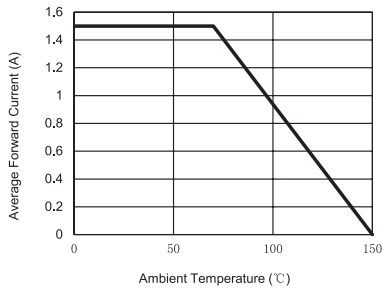


Fig. 2 - Maximum Non-Repetitive Surge Current

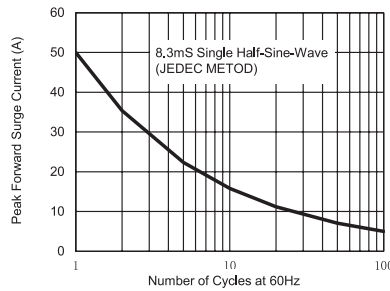


Fig. 3 - Typical Reverse Characteristics

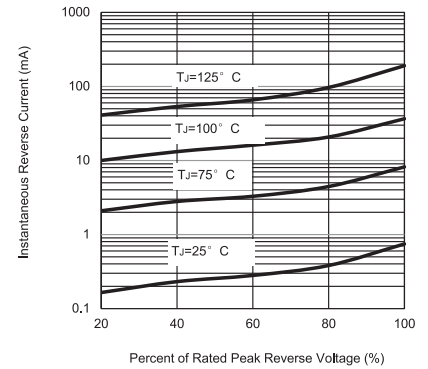


Fig. 4 - Typical Forward Characteristics

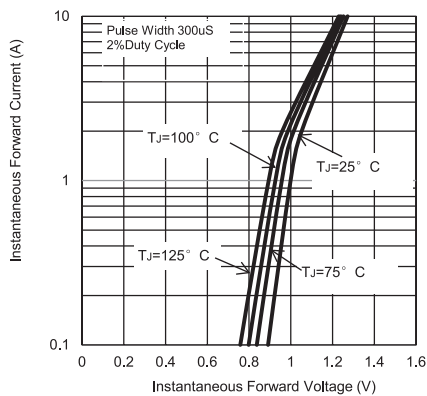
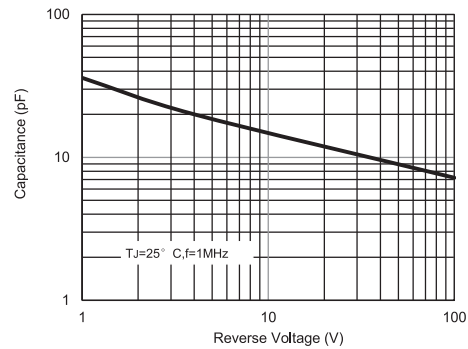


Fig. 5 - Typical Junction Capacitance



### 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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