

Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 3 A

## **Features**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- Fast switching for high efficiency.
- Construction utilizes void-free molded plastic technique.
- 3.0 ampere operation at T<sub>a</sub>=75°C with no thermal. runaway.
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs (2.3kg) tension.

## **Mechanical Data**

• Case: Molded plastic, DO-201AD.

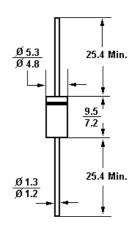
• Terminals: Plated axial leads, solderable per

MIL-STD-750, method 2026.

• Polarity: Color band denotes cathode end.

• Mounting Position: Any.

## DO-201AD



Dimnsions in mm

## Absolute Maximum Ratings and Characteristics @T<sub>a</sub>= 25 °C unless otherwise specified

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Symbols		FR301	FR302	FR303	FR304	FR305	FR306	FR307	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Average Forward Rectified Current at T <sub>a</sub> = 75 °C	I <sub>F(AV)</sub>	3							Α
Peak Forward Surge Current 8.3mS single half sine-wave (MIL-STD-750D 4066 method)	I <sub>FSM</sub>	150							Α
Maximum Instantaneous Forward Voltage <sup>3)</sup> at I <sub>FM</sub> = 3 A	V <sub>F</sub>	1.3							V
	I <sub>R</sub>	10 150							μΑ
Maximum Reverse Recovery Time 1)	T <sub>rr</sub>	150 25				250	500		nS
Typical Junction Capacitance 2)	CJ	65							pF
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>Stg</sub>	-55 to +150							°C

 $<sup>^{1)}</sup>$  Reverse recovery test conditions:  $I_F\!=0.5$  A,  $I_R\!=1$  A,  $I_{rr}\!=0.25$  A.

<sup>&</sup>lt;sup>2)</sup> Measured at 1MH<sub>Z</sub> and applied reverse voltage of 4V.

<sup>&</sup>lt;sup>3)</sup> Pulse test: pulse width 300 uS, Duty cycle 1%.



