

## General Purpose Rectifier, 3.0A

## Features

- Diffused junction
- High efficiency
- Low forward voltage drop
- Low power loss
- High surge current capability



DO-201AD (DO-27)

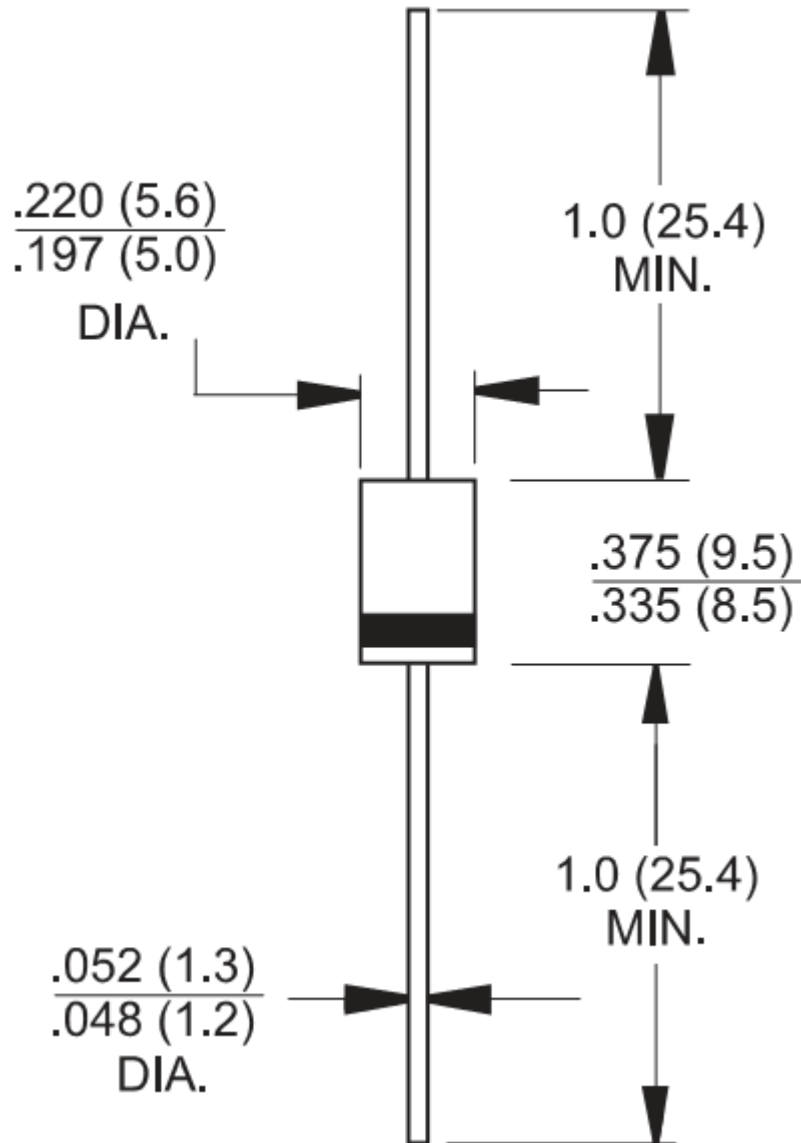
## Mechanical Characteristics

- Case: Molded Plastic
- Cathode indicated by Polarity band
- Mounting position: Any
- Terminals: Finish Tin plated, Solderable per MIL-STD-202, Method 208
- Weight: 0.33 grams (approx.)

Maximum Ratings ( $T_A = 25^{\circ}\text{C}$ unless otherwise specified)			
Parameter	Symbol	1N5402	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	1000	V
Maximum RMS voltage	$V_{RMS}$	700	V
Maximum DC blocking voltage	$V_{DC}$	1000	V
Maximum average forward output current @ $T_A = 105^{\circ}\text{C}$	$I_{F(AV)}$	3.0	A
Peak forward surge current (8.3ms) single half sine-wave superimposed on rated load	$I_{FSM}$	200	A

Electrical Characteristics ( $T_A = 25^{\circ}\text{C}$ unless otherwise specified)			
Parameters	Symbol	1N5402	Units
Maximum DC forward voltage drop @ 3.0A DC	$V_F$	1.0	V
Maximum DC reverse current @ rated DC blocking voltage	$I_R$	$T_A = 25^{\circ}\text{C}$	5.0
		$T_A = 100^{\circ}\text{C}$	50
Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2t$	3.7	$\text{A}^2\text{sec}$

Thermal and Mechanical Specifications ( $T_A = 25^{\circ}\text{C}$ unless otherwise specified)			
Parameters	Symbol	Values	Units
Typical thermal resistance, junction to ambient	$R_{\theta JA}$	25	$^{\circ}\text{C}/\text{W}$
Operating and Storage temperature range	$T_J, T_{Stg}$	- 65 to + 150	$^{\circ}\text{C}$



**Dimensions in inches and (millimeters)**