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1N5400 thru 1N5408 Axial Lead Standard Recovery Silicon Rectifiers, 3 Amp, DO-201AD

Description:

The 1N5400 through 1N5408 silicon rectifiers are designed for use in power supplies and other applications having need of a device with the following features:

Features:

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified. Single Phase, half wave, 60Hz, relative or inductive load. For capacitive load, derate current by 20%)

Peak Repetitive Reverse Voltage, V_{RRM}

Working Peak Reverse Voltage, V_{RWM}

DC Blocking Voltage, V_R

1N5400	50V
1N5401	100V
1N5402	200V
1N5403	300V
1N5404	400V
1N5405	500V
1N5406	600V
1N5407	800V
1N5408	1000V

Maximum RMS Reverse Voltage, $V_{R(RMS)}$

1N5400	35V
1N5401	70V
1N5402	140V
1N5403	210V
1N5404	280V
1N5405	350V
1N5406	420V
1N5407	560V
1N5408	700V

Average Rectified Current ($T_A = +75^\circ\text{C}$ Note 1), I_O 3A

Peak Forward Surge Current, I_{FSM}

(Superimposed on a Rated Load, 8.3ms Single Half-Sine Wave) 200A

Operating Junction Temperature Range, T_J -65° to $+125^\circ\text{C}$

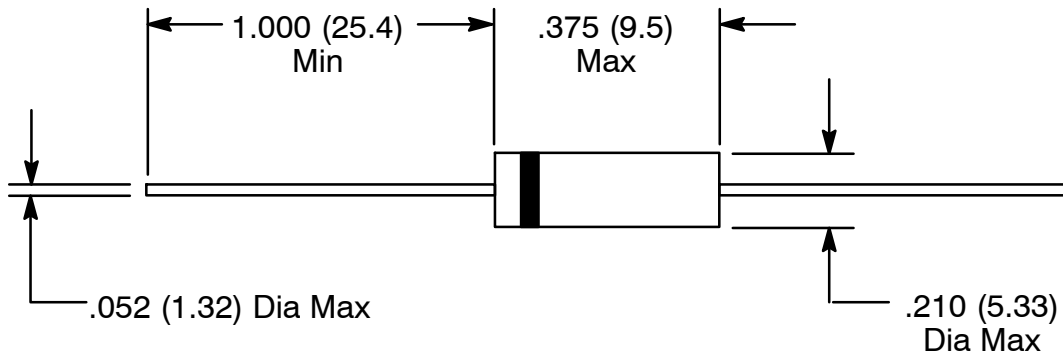
Storage Temperature Range, T_{stg} -65° to $+150^\circ\text{C}$

Thermal Resistance, Junction-to-Ambient (Note 1), R_{thJA} $+20^\circ\text{C/W}$

Note 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified. Single Phase, half wave, 60Hz, relative or inductive load. For capacitive load, derate current by 20%)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	
Peak Reverse Current	I_{RM}	Rated DC Blocking Voltage	$T_A = +25^\circ\text{C}$	-	-	5.0	μA
			$T_A = +100^\circ\text{C}$	-	-	100	μA
Maximum Forward Voltage	V_{FM}	$i_F = 3\text{A}$	-	-	1.0	V	
Junction Capacitance		$V_R = 4\text{V}, f = 1\text{MHz}$	-	30	-	pF	



Color Band Denotes Cathode