

# 1N5400 THRU 1N5408

## SILICON RECTIFIERS

### FEATURES:

- Low cost
- High surge current capability
- Low leakage current
- Low forward voltage drop
- Diffused junction

### MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

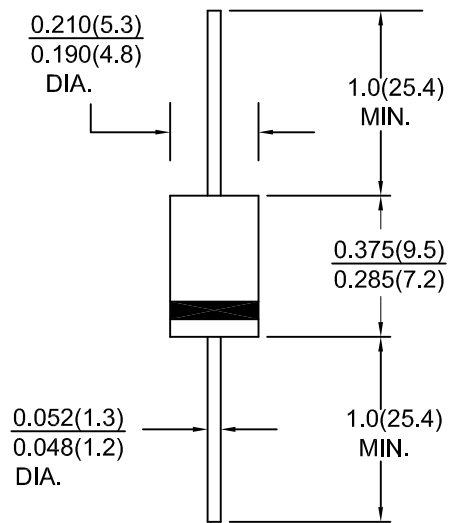
Terminals : Axial leads, solderable per MIL-STD-202, Method 208 guranteed

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 1.2 grams

### DO-201AD



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	1N	1N	1N	1N	1N	1N	1N	1N	1N	Units
		5400	5401	5402	5403	5404	5405	5406	5407	5408	
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	210	280	350	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forward rectified current at $T_L=105^\circ C$	$I_O$	3.0									Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	$I_{FSM}$	200									Amps
Maximum instantaneous forward voltage drop at 3.0 A	$V_F$	1.1									Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$	10 500									$\mu A$
Maximum full load reverse current, full cycle average .375"(9.5mm) lead length $T_L=70^\circ C$	$I_{R(AV)}$	30									$\mu A$
Typical junction capacitance	$C_j$	50									pF
Typical thermal resistance	$R_{th-JA}$	18									$^\circ C/W$
Operating junction and storage temperature range	$T_j, T_{stg}$	-65 to +125				-65 to +150					$^\circ C$

# RATINGS AND CHARACTERISTIC CURVES 1N5400 THRU 1N5408

