

## Features

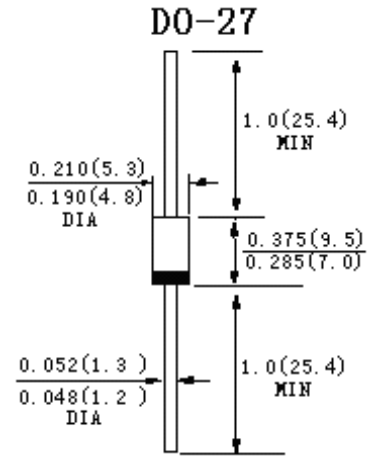
- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed: 260°C/10seconds, 9.5mm lead length
- Lead and body according with RoHS standard

## Mechanical Data

**Case:** DO-27 Molded plastic

**Epoxy:** UL 94V-0 rate flame retardant

**Lead:** Pure tin plated, lead free



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

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

For capacitive load, derate current by 20%

TYPE NUMBER	Symbols	1N 5400	1N 5401	1N 5402	1N 5404	1N 5406	1N 5407	1N 5408	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 9.5mm lead length at $T_A=55^\circ\text{C}$	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	150							A
Maximum instantaneous forward voltage at 3.0A	$V_F$	1.0							V
Maximum instantaneous reverse current at rated DC blocking voltage	$T_a=25^\circ\text{C}$	$I_{R1}$ 5.0							$\mu\text{A}$
	$T_a=100^\circ\text{C}$	$I_{R2}$ 100.0							$\mu\text{A}$
Operating junction temperature range	$T_j$	-55to+150							$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55to+150							$^\circ\text{C}$

Characteristic Curves

