

## Features

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

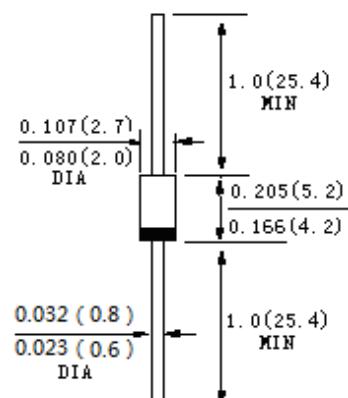
## Mechanical Data

**Case:** DO-41 Molded plastic

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

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

DO-41



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 4933	1N 4934	1N 4935	1N 4936	1N 4937	Units				
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	V				
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	V				
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	V				
Maximum average forward rectified current 9.5mm lead length at $T_A=55^\circ C$	$I_{F(AV)}$	1.0					A				
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	30					A				
Maximum instantaneous forward voltage at 1.0A	$V_F$	1.2					V				
Maximum reverse recovery time( <b>Note: 1</b> )	$T_{rr}$	150					nS				
Maximum DC reverse current at rated DC blocking voltage	$T_A=25^\circ C$	$I_{R1}$	5.0				$\mu A$				
	$T_A=100^\circ C$	$I_{R2}$	50.0				$\mu A$				
Operating junction temperature range	$T_J$	-55 to +150					°C				
Storage temperature range	$T_{stg}$	-55 to +150					°C				

**Note: 1.** Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

## Characteristic Curves

Fig. 1 - Forward Current Derating Curve

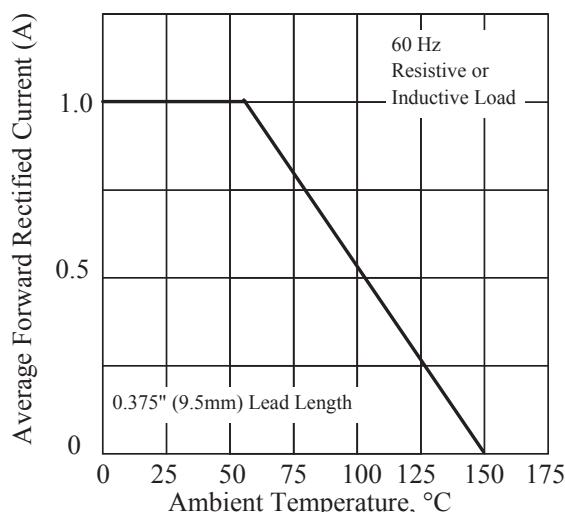


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

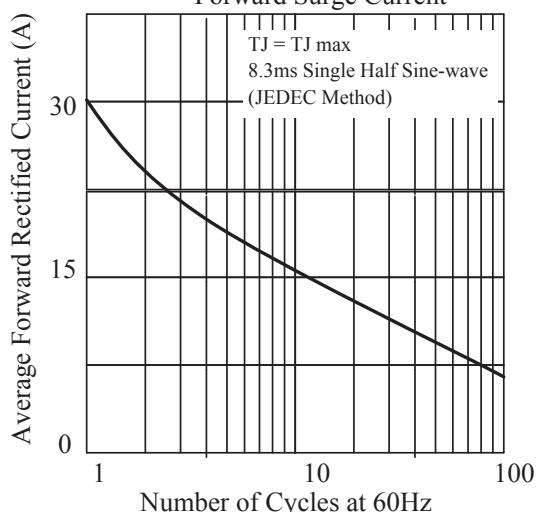


Fig. 3. - Typical Instantaneous Forward Characteristics

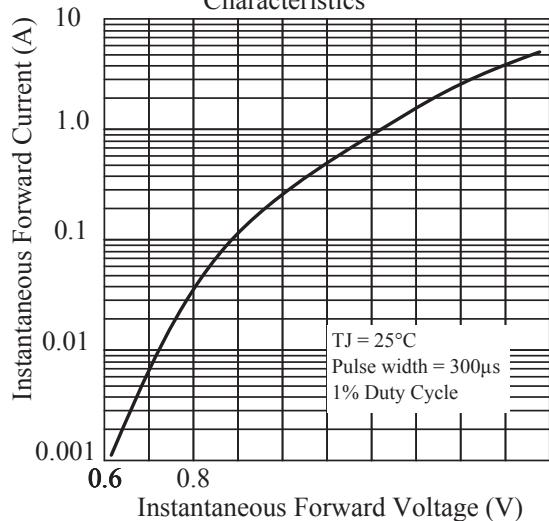


Fig 4. - Typical Reverse Characteristics

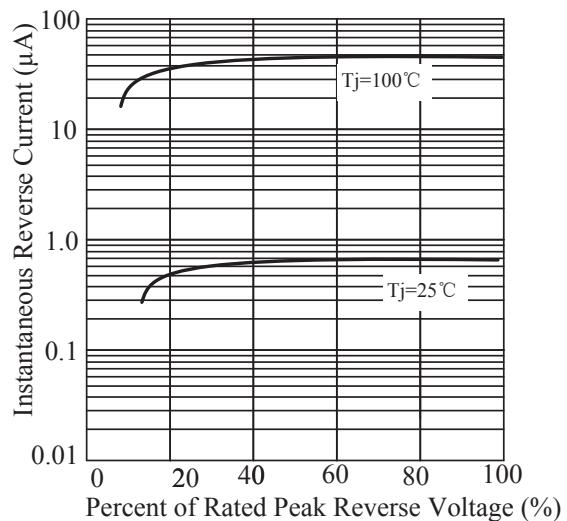


Fig 5. - Typical Junction Capacitance

