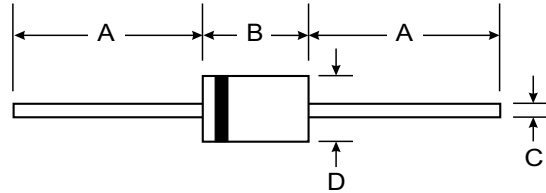


### Features

- Diffused Junction
- Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Reverse Leakage Current
- Plastic Material: UL Flammability Classification Rating 94V-0



### Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: DO-41 0.35 grams (approx)
- A-405 0.20 grams (approx)
- Mounting Position: Any
- Marking: Type Number

Dim	DO-41 Plastic		A-405	
	Min	Max	Min	Max
A	25.40	—	25.40	—
B	4.06	5.21	4.10	5.20
C	0.71	0.864	0.53	0.64
D	2.00	2.72	2.00	2.70

**All Dimensions in mm**

“L” Suffix Designates A-405 Package  
No Suffix Designates DO-41 Package

### Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	Symbol	1N4933/L	1N4934/L	1N4935/L	1N4936/L	1N4937/L	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$						
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	V
DC Blocking Voltage	$V_R$						
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	V
Average Rectified Output Current (Note 1)	$I_o$	1.0					A
		@ $T_A = 75^\circ\text{C}$					
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30					A
Forward Voltage Drop	$V_{FM}$	1.2					V
		@ $I_F = 1.0\text{A}$					
Peak Reverse Current at Rated DC Blocking Voltage	$I_{RM}$	5.0					$\mu\text{A}$
		@ $T_A = 25^\circ\text{C}$					
		@ $T_A = 100^\circ\text{C}$					
Reverse Recovery Time (Note 3)	$t_{rr}$	200					ns
Typical Junction Capacitance (Note 2)	$C_j$	15					pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	100					K/W
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150					$^\circ\text{C}$

- Notes:
1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.
  2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
  3. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1\text{A}$ ,  $I_{rr} = 0.25\text{A}$ .

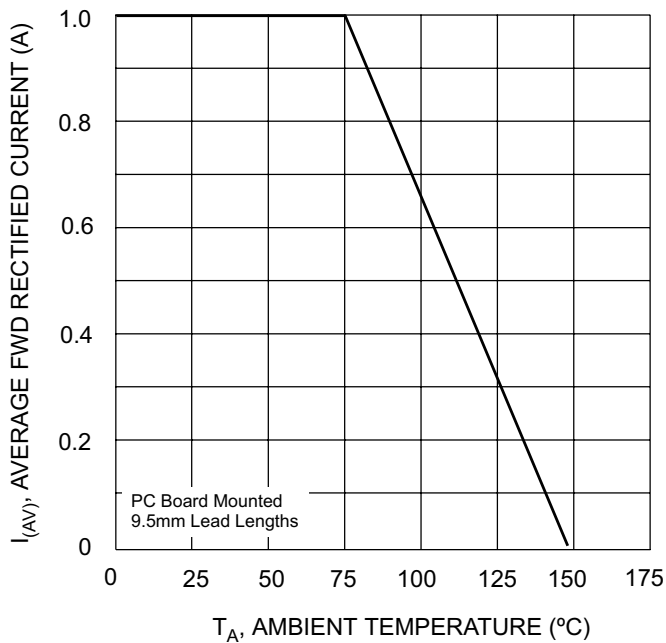


Fig. 1 Forward Current Derating Curves

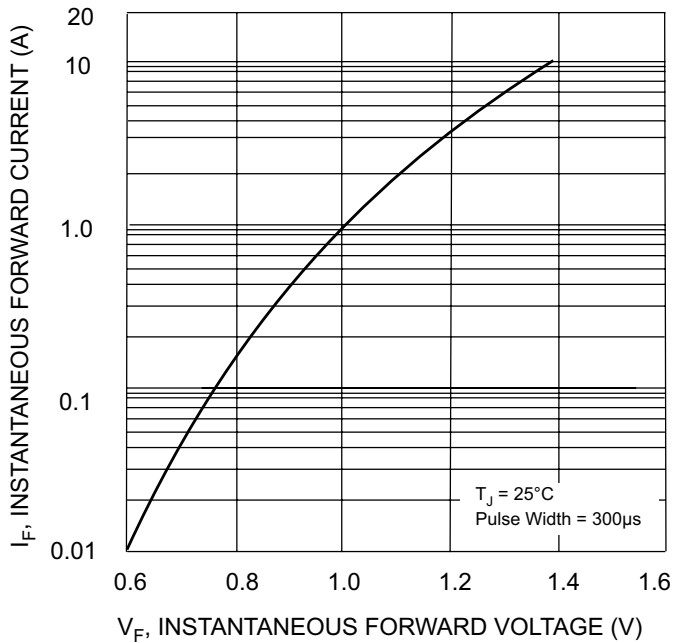


Fig. 2 Typical Forward Characteristics

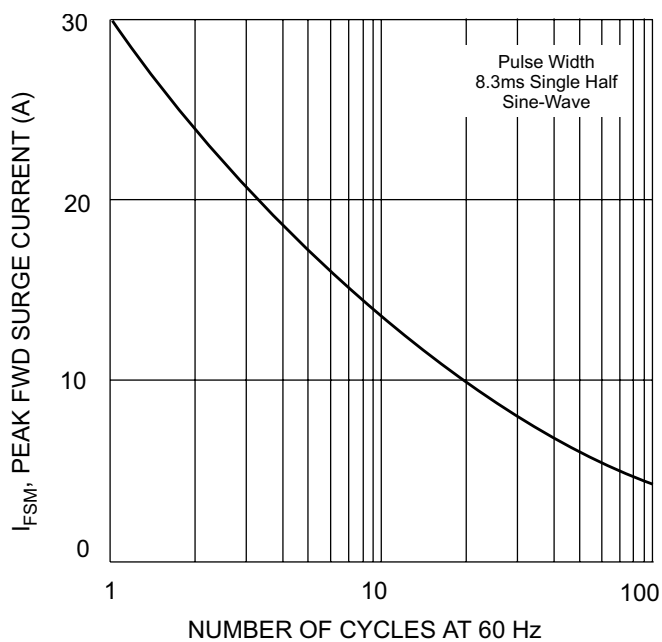


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

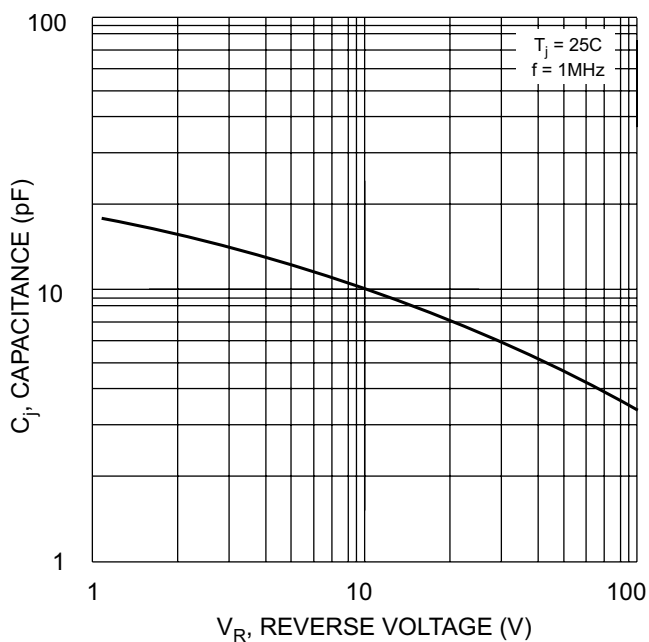


Fig. 4 Typical Junction Capacitance