



PINGWEI ENTERPRISE

# 1N4933 THRU 1N4937

## 1.0AMP . FAST RECOVERY RECTIFIERS

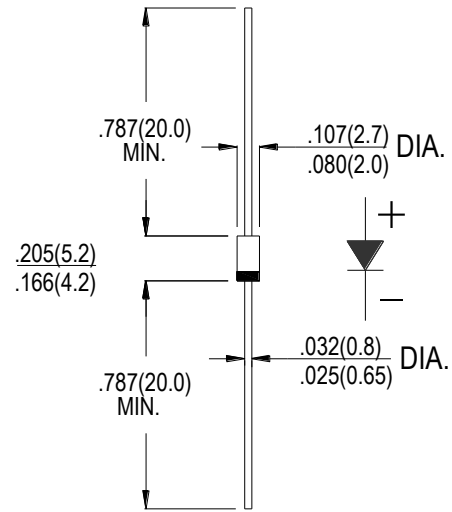
### FEATURE

- . Fast switching
- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed  
260°C /10sec/ 0.375" lead length at 5 lbs tension

### MECHANICAL DATA

- . Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- . Polarity: color band denotes cathode
- . Mounting position: any

### DO-41



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Type Number	SYMBOL	1N4933	1N4934	1N4935	1N4936	1N4937	units
Maximum Recurrent 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 .375"(9.5mm) lead length at $T_A = 55^\circ\text{C}$	$I_{F(AV)}$	1.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	30.0					A
Maximum Instantaneous forward Voltage at 1.0A DC	$V_F$	1.3					V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	$I_R$	5.0 100.0					$\mu\text{A}$
Maximum Reverse Recovery Time (Note 1)	$t_{rr}$	150					ns
Typical Junction Capacitance (Note 2)	$C_J$	15					pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	75					$^\circ\text{C/W}$
Storage Temperature	$T_{STG}$	-55 to +150					$^\circ\text{C}$
Operation Junction Temperature	$T_J$	-55 to +150					$^\circ\text{C}$

### Note:

1. Test Conditions:  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{RR} = 0.25\text{A}$
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C. Board Mounted.