



ELECTRONICS, INC.  
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## 1N4933 thru 1N4937 Silicon Rectifier General Purpose, Fast Recovery DO-41 Type Package

**Features:**

- Fast Switching for High Efficiency
- Low Forward Voltage Drop
- Low Leakage Current
- High Forward Surge Capability

**Maximum Ratings and Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Maximum Repetitive Peak Reverse Voltage, $V_{RRM}$	
1N4933 .....	50V
1N4934 .....	100V
1N4935 .....	200V
1N4936 .....	400V
1N4937 .....	600V
Maximum RMS Voltage, $V_{RMS}$	
1N4933 .....	35V
1N4934 .....	70V
1N4935 .....	145V
1N4936 .....	280V
1N4937 .....	420V
Maximum DC Blocking Voltage, $V_{DC}$	
1N4933 .....	50V
1N4934 .....	100V
1N4935 .....	200V
1N4936 .....	400V
1N4937 .....	600V
Maximum Average Forward Rectified Current, $I_{F(AV)}$	
.375" (9.5mm) Lead Length at $T_A = +75^\circ\text{C}$ .....	1A
Peak Forward Surge Current, $I_{FSM}$	
8.3ms Single Half Sine-Wave Superimposed on Rated Load .....	30A
Maximum Reverse Recovery Current, $I_{RM}$ .....	
.....	2A
Maximum Instantaneous Forward Voltage at 1A DC, $V_F$ .....	
.....	1.2V

**Maximum Ratings and Electrical Characteristics (Cont'd):** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Maximum DC Reverse Current at Rated DC Blocking Voltage,  $I_R$

$T_A = +25^\circ\text{C}$ .....	5 $\mu\text{A}$
$T_A = +100^\circ\text{C}$ .....	100 $\mu\text{A}$

Maximum Reverse Recovery Time ( $I_F = 1\text{A}$ ,  $V_R = 30\text{V}$ ,  $di/dt = 50\text{A}/\mu\text{s}$ ,  $I_{rr} = 10\% I_{RM}$ ),  $t_{rr}$  ... 200ns

Typical Junction Capacitance (4V, 1MHz),  $C_J$  ..... 12pF

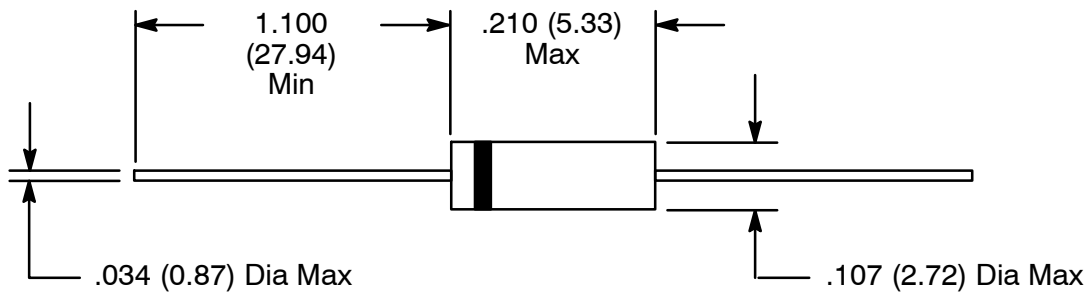
Operating Junction Temperature Range,  $T_J$  .....  $-50^\circ$  to  $+150^\circ\text{C}$

Storage Temperature Range,  $T_{stg}$  .....  $-50^\circ$  to  $+150^\circ\text{C}$

Typical Thermal Resistance, Junction-to-Ambient (Note 1),  $R_{thJA}$  .....  $+55^\circ\text{C}/\text{W}$

Typical Thermal Resistance, Junction-to-Lead (Note 1),  $R_{thJL}$  .....  $+25^\circ\text{C}/\text{W}$

Note 1. Measured at .375" (9.5mm) lead length, PCB mounted.



Color Band Denotes Cathode