

NTE125 General Purpose Silicon Rectifier

Description:

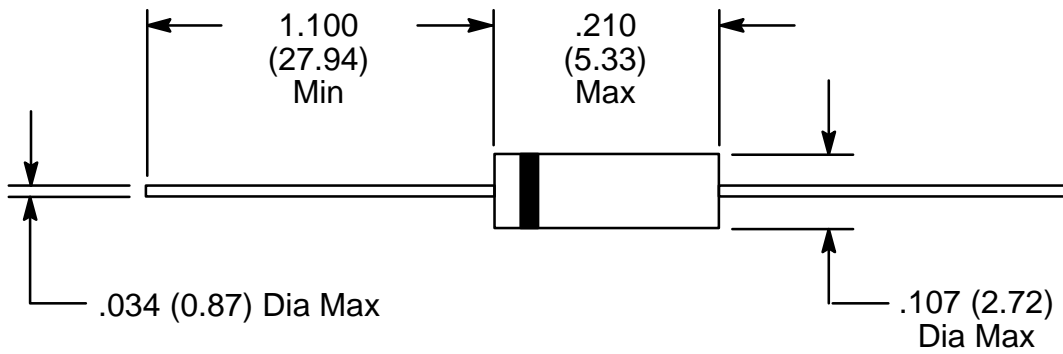
The NTE125 is a general purpose silicon rectifier in a DO41 case designed for low power and switching applications.

Maximum Ratings:

| | |
|--------------------------------------------------------------------------------------------------------------------|----------------|
| Peak Repetitive Reverse Voltage, V_{RRM} | 1000V |
| Working Peak Reverse Voltage, V_{RWM} | 1000V |
| DC Blocking Voltage, V_R | 1000V |
| Non-Repertitive Peak Reverse Voltage (Halfwave, Single Phase, 60Hz), V_{RSM} | 1200V |
| RMS Reverse Voltage, $V_{R(RMS)}$ | 700V |
| Average Rectified Forward Current, I_O (Single Phase, Resistive Load, 60Hz, $T_A = +75^\circ\text{C}$) | 1A |
| Non-Repertitive Peak Surge Current, I_{FSM} (Surge applied at rated load conditions for 1 cycle) | 50A |
| Operating Junction Temperature Range, T_J | -65° to +175°C |
| Storage Temperature Range, T_{stg} | -65° to +175°C |
| Maximum Lead Temperature, T_L (During Soldering, 3/8" from case for 10sec at 5lbs tension) | +350°C |

Electrical Characteristics:

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-------------------------------------------------|-------------|------------------------------------------------------|-----|------|-----|---------------|
| Maximum Instantaneous Forward Voltage Drop | v_F | $i_F = 1A, T_J = +25^\circ\text{C}$ | - | 0.93 | 1.1 | V |
| Maximum Full-Cycle Average Forward Voltage Drop | $V_{F(AV)}$ | $I_O = 1A, T_L +75^\circ\text{C}, 1'' \text{ leads}$ | - | - | 0.8 | V |
| Maximum Reverse Current | I_R | $V_{RRM} = 600V, T_J = +25^\circ\text{C}$ | - | 0.05 | 10 | μA |
| | | $V_{RRM} = 600V, T_J = +100^\circ\text{C}$ | - | 1.0 | 50 | |
| Maximum Full-Cycle Average Reverse Current | $I_{R(AV)}$ | $I_O = 1A, T_L +75^\circ\text{C}, 1'' \text{ leads}$ | - | - | 30 | μA |



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