



ELECTRONICS, INC.
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NTE542 High Voltage Silicon Rectifier, 350mA

Features:

- Controlled Avalanche Characteristic Combined with the Ability to Dissipate Reverse Power
- Low Forward Voltage Drop
- Typical Reverse Current Less Than 1 μ A
- High Overload Surge Capability
- High Temperature Soldering Guaranteed: +260°C/10 sec at Terminals

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

Maximum Recurrent Peak Reverse Voltage, V_{RRM}	15kV
Maximum RMS Voltage, V_{RMS}	10500V
Maximum DC Blocking Voltage, V_{DC}	15kV
Maximum Average Forward Rectified Current ($T_A = +55^\circ\text{C}$), $I_{F(AV)}$	350mA
Peak Forward Surge Current, I_{FSM} (8.3ms Single Half Sine-Wave Superimposed on Rated Load), I_{FSM}	30A
Maximum Instantaneous Forward Voltage ($I_F = 350\text{mA}$), V_F	15V
Maximum DC Reverse Current ($V_R = 15\text{kV}$), I_R	5.0 μ A
Operating Junction Temperature Range, T_J	-40° to +130°C
Storage Temperature Range, T_{stg}	-40° to +130°C

Note 1. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

