NTE587
Silicon Diode
Ultra Fast Switch

Features:

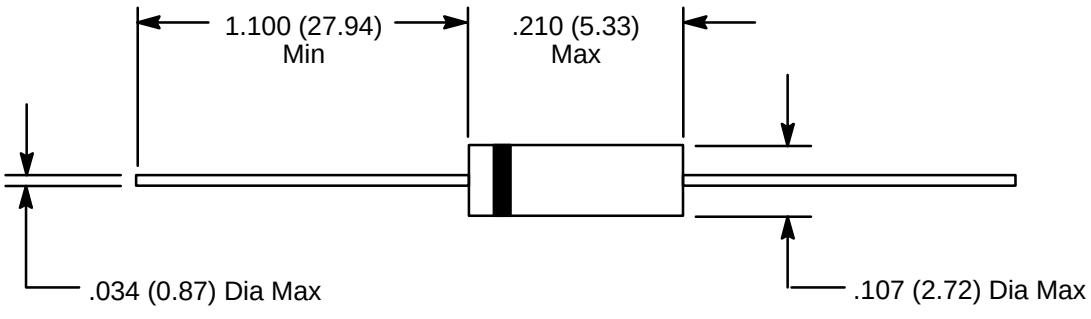
- Super Fast Switching Speed
- High Current Capability
- High Surge Current Capability
- Low Forward Voltage Drop
- High Reliability
- DO41 Type Package

Maximum Ratings and Electrical Characteristics:

(T_A = +25°C unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%)

Maximum Recurrent Peak Reverse Voltage 200V
Maximum RMS Voltage 140V
Maximum Average Forward Rectified Current (T_A = +55°C) 1.0A
Peak Forward Surge Current (8.3ms single half wave superimposed on rated load) 30A
Maximum Forward Voltage Drop (I_O = 1A) 0.95V
Maximum DC Reverse Current (V_{DC} = 200V) 5µA
Maximum DC Reverse Current (V_{DC} = 200V, T_A = +150°C) 50µA
Maximum Reverse Recovery Time (Note 1) 35ns
Typical Junction Capacitance (Note 2) 53pF
Operating Temperature Range, T_{opr} . . . . . –65° to +150°C
Storage Temperature Range, T_{stg} . . . . . –65° to +150°C

Note 1. Test Conditions: I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.
Note 2. Measured at 1MHz and applied reverse voltage of 4V.



Color Band Denotes Cathode