NTE575
General Purpose Silicon Rectifier
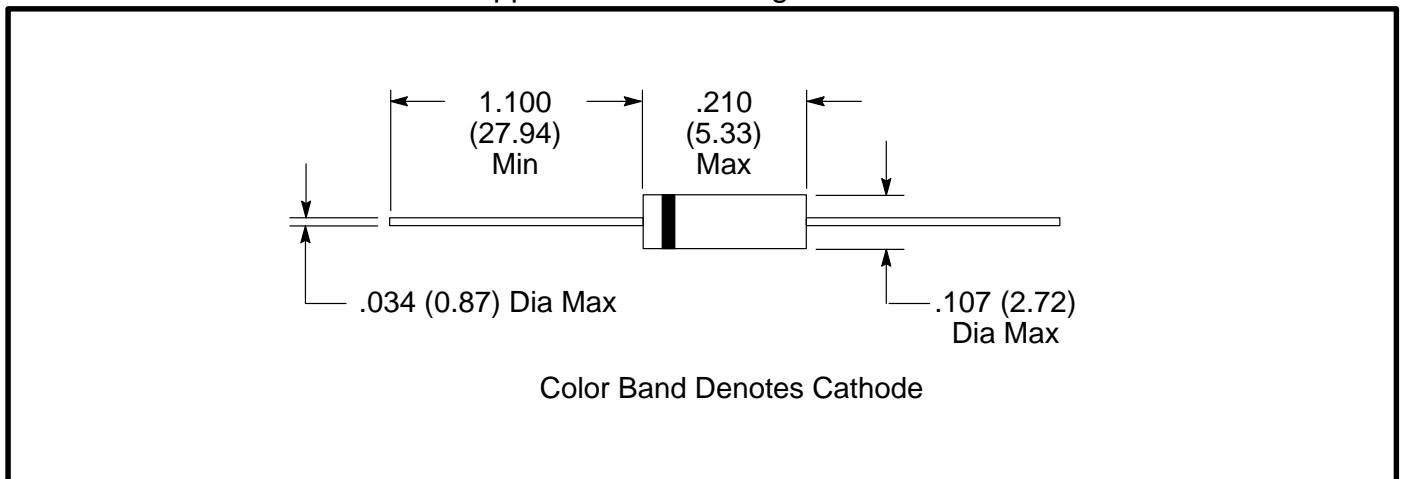## Fast Recovery

Features:
- Low Switching Noise
- Low Forward Voltage Drop
- Low Thermal Resistance
- High Current Capability
- High Switching Capability
- High Surge Capability
- High Reliability

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, V_{RRM} 1000V

Maximum RMS Voltage, V_{RMS} 700V

Maximum DC Blocking Voltage, V_{DC} 1000V

Maximum Average Forward Rectified Output Current (T_A = +55°C), $I_{(AV)}$ 1A

Peak Forward Surge Current, I_{FSM}
       (8.3ms single half sine wave superimposed on rated load) 35A

Maximum Instantaneous Forward Voltage (At 1A), V_F 1.5V

Maximum DC Reverse Current (V_{DC} = 1000V), I_R 50μA

Maximum Reverse Recovery Time (I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A), t_{rr} 70ns

Typical Junction Capacitance (Note 1), C_J 15pF

Thermal Resistance, Junction–to–Air (ᵂ/fin), R_{thJA} . . . . 50°C/W

Operating Junction Temperature Range, T_J . . . . –65° to +150°C

Storage Temperature Range, T_{stg} . . . . –65° to +150°C

Note 1. Measured at 1MHz and applied reverse voltage of 4V.

1.100 (27.94) Min   .210 (5.33) Max

.034 (0.87) Dia Max   .107 (2.72) Dia Max

Color Band Denotes Cathode

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