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# NTE586
# Silicon Rectifier Diode
# Schottky Barrier, Fast Switching

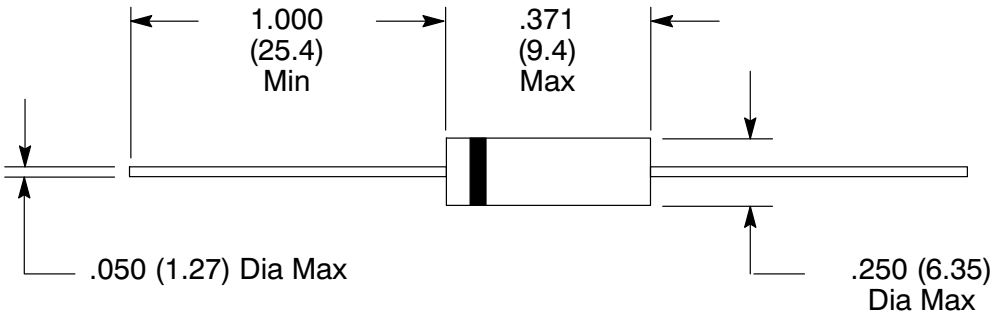
**Features:**

- Low Switching Noise
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Capability

**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 Current . . . . . 40V
Maximum RMS Voltage . . . . . 28V
Maximum DC Blocking Voltage . . . . . 40V
Maximum Average Forward Rectified Current (375" . (9.5mm) lead length at $T_L$ = +95°C). . . 3.0A
Peak Forward Surge Current
(8.3ms single half sine-wave superimposed on rated load $T_L$ = +75°C) . . . . . 80A
Maximum Instantaneous Forward Voltage at 3A DC (Note 1) . . . . . .525V
Maximum Average Reverse Current at Rated DC Blocking Voltage
$T_A$ = +25°C . . . . . 1.0mA
$T_A$ = +100°C . . . . . 10mA
Typical Thermal Resistance, Junction-to-Ambient (Note 2), $R_{thJA}$ . . . . . 80°C/W
Typical Junction Capacitance (Note 3) . . . . . 110pF
Operating Junction Temperature Range $T_J$ . . . . . −65° to +125°C
Storage Temperature Range $T_{STG}$ . . . . . −65° to +125°C

Note 1. measured at Pulse Width 300μs, Duty Cycle 2%.
Note 2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.
Note 3. Measured at 1MHz and applied reverse voltage of 4.0 Volts.




Color Band Denotes Cathode