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NTE576 (DO-27) & NTE576-6 (DO-201AD) 5A Super Fast Rectifier

Features:

- High Current Capability
- High Reliability
- High Surge Current Capability

Maximum Ratings and Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified.
Resistive or inductive load 60Hz. For capacitive load, derate current by 20%.)

Recurrent Peak Reverse Voltage, V_{RRM}

NTE576	400V
NTE576-6	600V

RMS Voltage, V_{RMS}

NTE576	280V
NTE576-6	420V

DC Blocking Voltage, V_{DC}

NTE576	400V
NTE576-6	600V

Average Forward Output Rectified Current, I_O

[.375 (9.5mm) lead length at $T_A = 50^\circ\text{C}$]	5A
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Non-Repetitive Peak Forward Surge Current, I_{FSM}

(8.3ms single half sine-wave superimposed on rated load)	150A
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Forward Voltage Drop ($I_F = 5A$), V_{FM}

NTE576	1.25V
NTE576-6	1.7V

Peak Reverse Current (at Rated DC Blocking Voltage), I_{RM}

$T_A = +25^\circ\text{C}$	5 μA
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$T_A = +100^\circ\text{C}$

NTE576	50 μA
NTE576-6	100 μA

Maximum Reverse Recovery Time (Note 1), t_{rr} 35ns

Typical Junction Capacitance (Note 2), C_J

NTE576	150pF
NTE576-6	75pF

Operating Junction Temperature Range, T_J

NTE576	-65° to $+150^\circ\text{C}$
NTE576-6	-65° to $+125^\circ\text{C}$

Storage Temperature Range, T_{stg} -65° to $+150^\circ\text{C}$

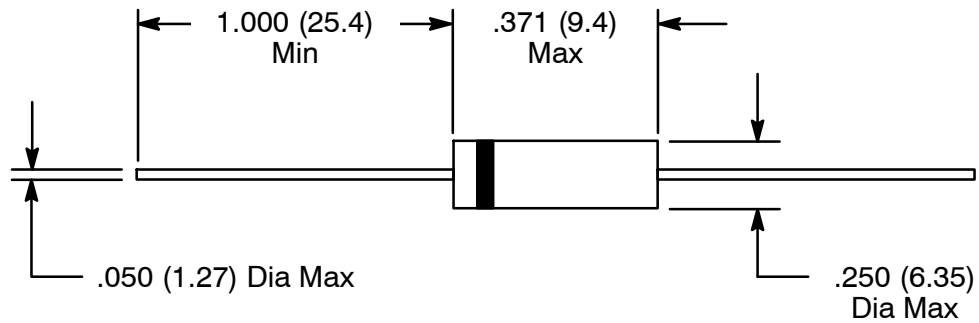
Note 1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.

Note 2. Measured at 1MHz and applied reverse voltage of 4.0VDC.

Rev. 3-15

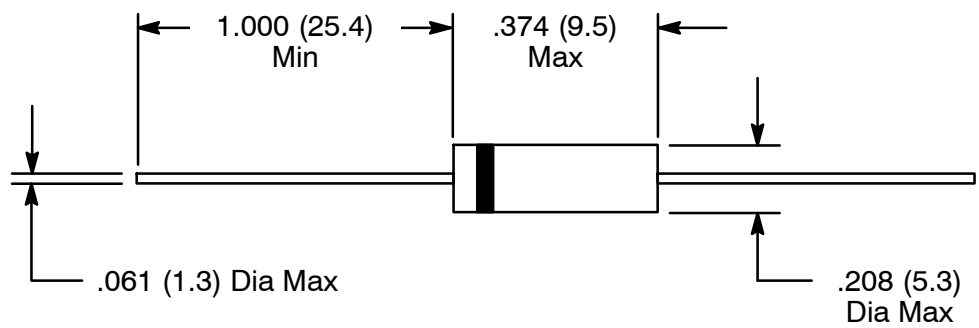


NTE576
DO-27 Type Package



Color Band Denotes Cathode

NTE576-6
DO-201AD Type Package



Color Band Denotes Cathode