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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 ( $I_F = 5\text{A}$ ),  $V_{FM}$

NTE576 .....	1.25V
NTE576-6 .....	1.7V

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

$T_A = +25^\circ\text{C}$ .....	5 $\mu\text{A}$
$T_A = +100^\circ\text{C}$ .....	

NTE576 .....	50 $\mu\text{A}$
NTE576-6 .....	100 $\mu\text{A}$

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°C
NTE576-6 .....	-65° to +125°C

Storage Temperature Range,  $T_{stg}$  .....

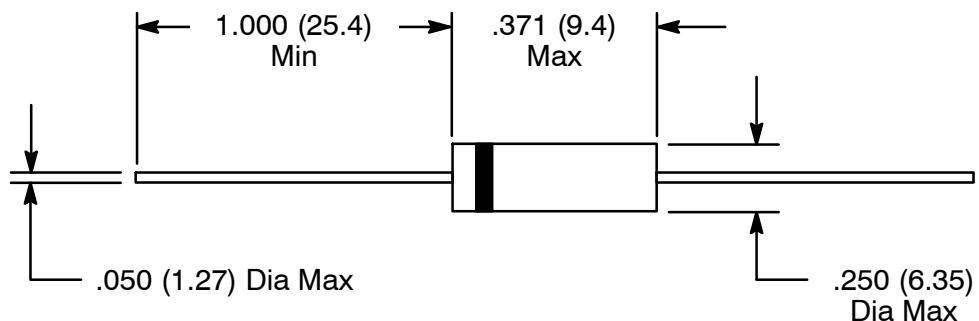
-65° to +150°C

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

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

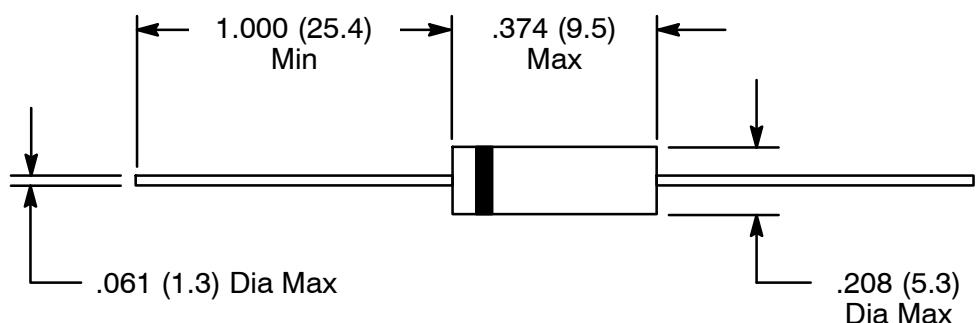


**NTE576**  
**DO-27 Type Package**



Color Band Denotes Cathode

**NTE576-6**  
**DO-201AD Type Package**



Color Band Denotes Cathode