ELECTRONICS, INC.
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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°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°C] 5A

Non–Repetitive Peak Forward Surge Current, I_{FSM}
- (8.3ms single half sine–wave superimposed on rated load) 150A

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°C 5μA
- T_A = +100°C
  - NTE576 . . . . . 50μA
  - NTE576–6 . . . . . 100μA

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

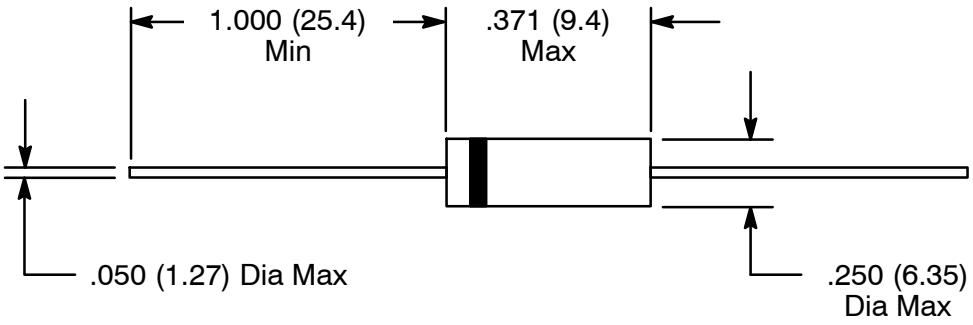
Note 1. Reverse Recovery Test Conditions: I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.

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

Rev. 3–15

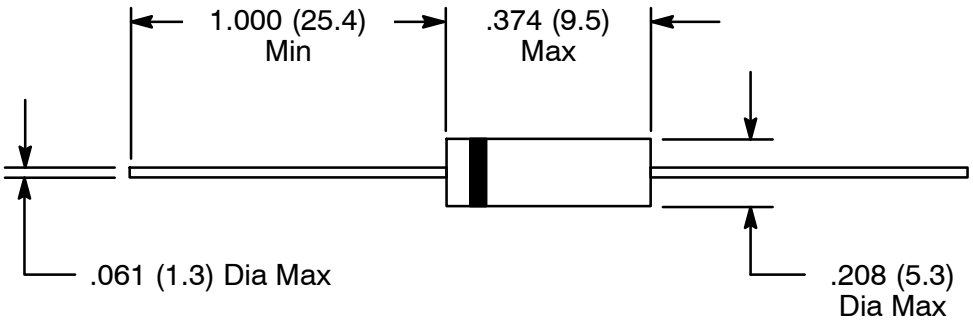
RoHS 2002/95/EC

NTE576
DO−27 Type Package



Color Band Denotes Cathode

NTE576−6
DO−201AD Type Package



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