

## NTE576

### 5.0 Ampere Super Fast Rectifier

**Features:**

- Low Forward Voltage Drop
- 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, $V_{RRM}$ .....	400V
RMS Voltage, $V_{RMS}$ .....	280V
DC Blocking Voltage, $V_{DC}$ .....	400V
Average Forward Output Rectified Current, [.375 (9.5mm) lead length at $T_A = 55^\circ\text{C}$ ] .....	5.0A <sub>(AV)</sub>
Peak Forward Surge Current, (8.3ms single half sine-wave superimposed on rated load ) .....	150A <sub>(PK)</sub>
Instantaneous Forward Voltage Drop at 5.0A .....	1.25V <sub>(PK)</sub>
Full Load Reverse Current at Rated DC Blocking Voltage	
$T_A = +25^\circ\text{C}$ .....	5.0 $\mu\text{A}$
$T_A = +100^\circ\text{C}$ .....	50 $\mu\text{A}$
Maximum Reverse Recovery Time (Note 1) .....	35ns
Typical Junction Capacitance (Note 2) .....	150pF
Operating Junction Temperature Range, $T_J$ .....	-65° to +150°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.

