

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 _(AV)
Peak Forward Surge Current, (8.3ms single half sine-wave superimposed on rated load)	150A _(PK)
Instantaneous Forward Voltage Drop at 5.0A	1.25V _(PK)
Full Load Reverse Current at Rated DC Blocking Voltage	
$T_A = +25^\circ\text{C}$	5.0 μA
$T_A = +100^\circ\text{C}$	50 μA
Maximum Reverse Recovery Time (Note 1)	35ns
Typical Junction Capacitance (Note 2)	150pF
Operating Junction Temperature Range, T_J	-65° to $+150^\circ\text{C}$
Storage Temperature Range, T_{STG}	-65° to $+150^\circ\text{C}$

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.

