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NTE586 Silicon Rectifier Diode Schottky Barrier, Fast Switching

Features:

- Low Switching Noise
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Capability

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

Maximum Recurrent Peak Reverse Current	40V
Maximum RMS Voltage	28V
Maximum DC Blocking Voltage	40V
Maximum Average Forward Rectified Current (375" . (9.5mm) lead length at $T_L = +95^\circ\text{C}$). ..	3.0A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load $T_L = +75^\circ\text{C}$)	80A
Maximum Instantaneous Forward Voltage at 3A DC (Note 1)525V
Maximum Average Reverse Current at Rated DC Blocking Voltage	
$T_A = +25^\circ\text{C}$	1.0mA
$T_A = +100^\circ\text{C}$	10mA
Typical Thermal Resistance, Junction-to-Ambient (Note 2), R_{thJA}	80°C/W
Typical Junction Capacitance (Note 3)	110pF
Operating Junction Temperature Range T_J	-65° to +125°C
Storage Temperature Range T_{STG}	-65° to +125°C

Note 1. measured at Pulse Width 300µs, Duty Cycle 2%.

Note 2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

Note 3. Measured at 1MHz and applied reverse voltage of 4.0 Volts.

