

## NTE585 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 $T_L = +90^\circ\text{C}$ ). . .	1.0A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load $T_L = +70^\circ\text{C}$ ) .....	25A
Maximum Forward Voltage at 1.0A DC .....	.60V
Maximum Forward Voltage at 3.1A DC .....	.90V
Maximum Average Reverse Current at Peak Reverse Voltage	
$T_A = +25^\circ\text{C}$ .....	1.0mA
$T_A = +100^\circ\text{C}$ .....	10mA
Typical Thermal Resistance, Junction-to-Ambient (Note 1), $R_{thJA}$ .....	80°C/W
Typical Junction Capacitance (Note 2) .....	110pF
Operating Junction Temperature Range $T_J$ .....	-65° to +125°C
Storage Temperature Range $T_{STG}$ .....	-65° to +125°C

Note 1. Thermal Resistance Junction to Ambient Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

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

