

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%.

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|---|-------------------------------------|
| 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 $+125^\circ\text{C}$ |
| Storage Temperature Range T_{STG} | -65° to $+125^\circ\text{C}$ |

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.

