

## NTE580 General Purpose Silicon Rectifier Fast Recovery

## Features:

- High Temperature Metallurgically Bonded–No Compression Contacts
- Fast Switching for High Effeciency
- 3A Operation at  $T_A = +25^{\circ}C$  with No Thermal Runaway

## Maximum Ratings and Electrical Characteristics:

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

Maximum Recurrent Peak Reverse Voltage 600V   Maximum RMS Voltage 420V   Maximum DC Blocking Voltage 600V
Maximum De Blocking voltage
Peak Forward Surge Current (8.3ms Single Half Sine-Wave Superimposed on Rted Load) . 100A
Maximum Instantaneous Forward Voltage (I <sub>F</sub> = 3A) 1.3V
Maximum DC Reverse Current ( $V_{DC}$ = 600V, $T_A$ = +25°C)
Maximum Average Reverse Current (P <sub>RV</sub> = 600V)
$T_A = +25^{\circ}C$
$T_A = +100^{\circ}C$
Maximum Reverse Recovery Time (Note 1) 150ns
Typical Junction Capacitance (Note 2) 65pF
Operating Junction Temperature Range, T <sub>J</sub>
Storage Temperature Range, T <sub>stg</sub> –65° to +175°C
Lead temperature (During Soldering, .375" (9.5mm) from case, 10sec), T <sub>L</sub> +350°C



Note 2. Measured at 1MHz and applied reverse voltage of 4V.

