ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089

NTE580
General Purpose Silicon Rectifier
Fast Recovery

Features:

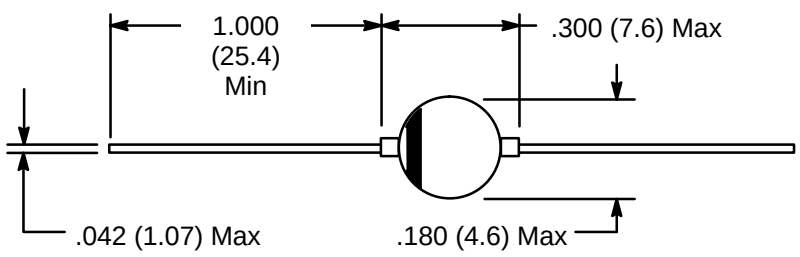
- High Temperature Metallurgically Bonded–No Compression Contacts
- Fast Switching for High Effeciency
- 3A Operation at T_A = +25°C with No Thermal Runaway

Maximum Ratings and Electrical Characteristics:

(T_A = +25°C 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 Average Forward Rectified Current (.375” (9.5mm) Lead Length, T_A = +75°C) 3A
Peak Forward Surge Current (8.3ms Single Half Sine–Wave Superimposed on Rted Load) . 100A
Maximum Instantaneous Forward Voltage (I_F = 3A) 1.3V
Maximum DC Reverse Current (V_{DC} = 600V, T_A = +25°C) 5µA
Maximum Average Reverse Current (P_{RV} = 600V)
T_A = +25°C 2µA
T_A = +100°C 100µA
Maximum Reverse Recovery Time (Note 1) 150ns
Typical Junction Capacitance (Note 2) 65pF
Operating Junction Temperature Range, T_J . . . . . –65° to +175°C
Storage Temperature Range, T_{stg} . . . . . –65° to +175°C
Lead temperature (During Soldering, .375” (9.5mm) from case, 10sec), T_L . . . . . +350°C

Note 1. Reverse Recovery Test Conditions: I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.
Note 2. Measured at 1MHz and applied reverse voltage of 4V.



Color Band Denotes Cathode