# NTE558
# General Purpose Silicon Rectifier

## Description:

The NTE558 is a general purpose silicon rectifier in a DO41 type case designed for low high voltage fast recovery applications.
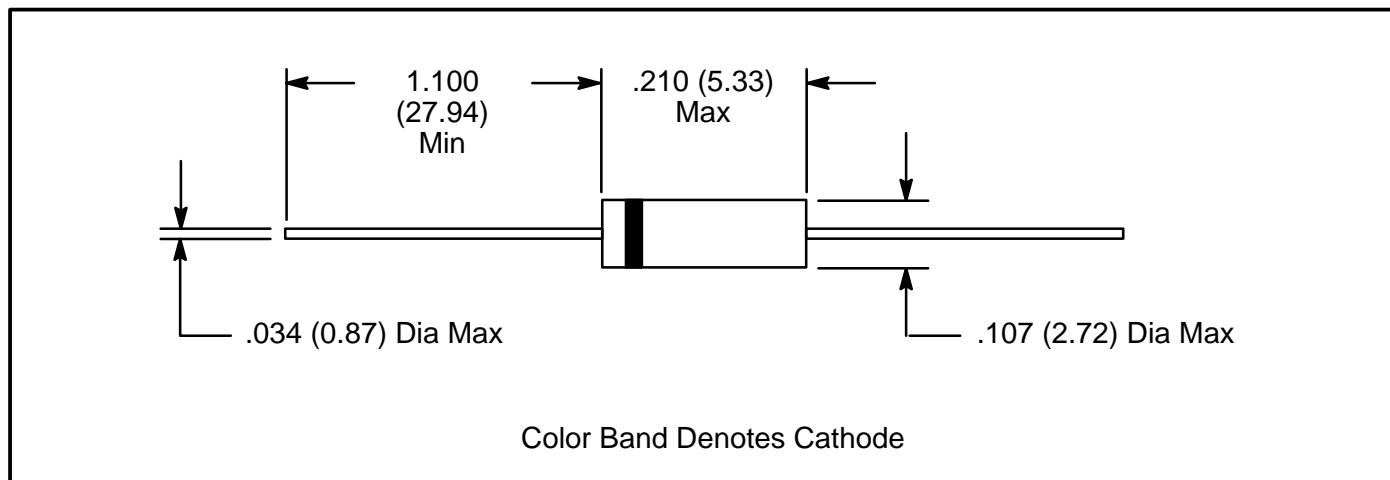
## Maximum Ratings:

Peak Repetitive Reverse Voltage, $V_{RRM}$ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1500V
DC Blocking Voltage, $V_R$ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1500V
RMS Reverse Voltage, $V_{R(RMS)}$ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1050V
Average Rectified Forward Current. $I_O$
    (Single Phase, Resistive Load, 60Hz, $T_A$ = +75°C) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1A
Peak Forward Surge Current, $I_{FSM}$
    (8.3ms Single Half Sine–Wave Superimposed on Rated Load) . . . . . . . . . . . . . . . . . . . . . 50A
Operating Junction Temperature Range, $T_J$ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . −65° to +175°C
Storage Temperature Range, $T_{stg}$ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . −65° to +175°C

## Electrical Characteristics: ($T_A$ = +25°C unless otherwise specified. Single Phase, Half Wave, 60Hz, Resistve or Inductive Load)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Maximum Instantaneous Forward Voltage Drop | $V_F$ | $I_O$ = 1A, $T_J$ = +25°C | – | – | 1.3 | V |
| Maximum DC Reverse Current | $I_R$ | $V_R$ = 1500V, $T_A$ = +25°C | – | – | 5 | µA |
| Maximum Full–Cycle Average ReverseCurrent | $I_{R(AV)}$ | Full Cycle, $T_L$ +55°C, .375" (9.5mm) lead length | – | – | 100 | µA |
| Maximum Reverse Recovery Time | $t_{rr}$ | $I_F$ = 500mA, $I_R$ = 1A, $I_{RR}$ = 250mA | – | – | 250 | ns |
| Typical Junction capacitance | C | Note 1 | – | 20 | – | pF |

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



1.100 (27.94) Min    .210 (5.33) Max

.034 (0.87) Dia Max    .107 (2.72) Dia Max

Color Band Denotes Cathode

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