# NTE5962 & NTE5963
# NTE5966 & NTE5967
# Silicon Power Rectifier Diode, 25 Amp

## Features:

- 25 Amp @ $T_C$ = +100°C
- 300 Amp Surge Capability
- Rugged Construction
- Available in Standard (NTE5962, NTE5966) and Reverse (NTE5963, NTE5967) Polarity

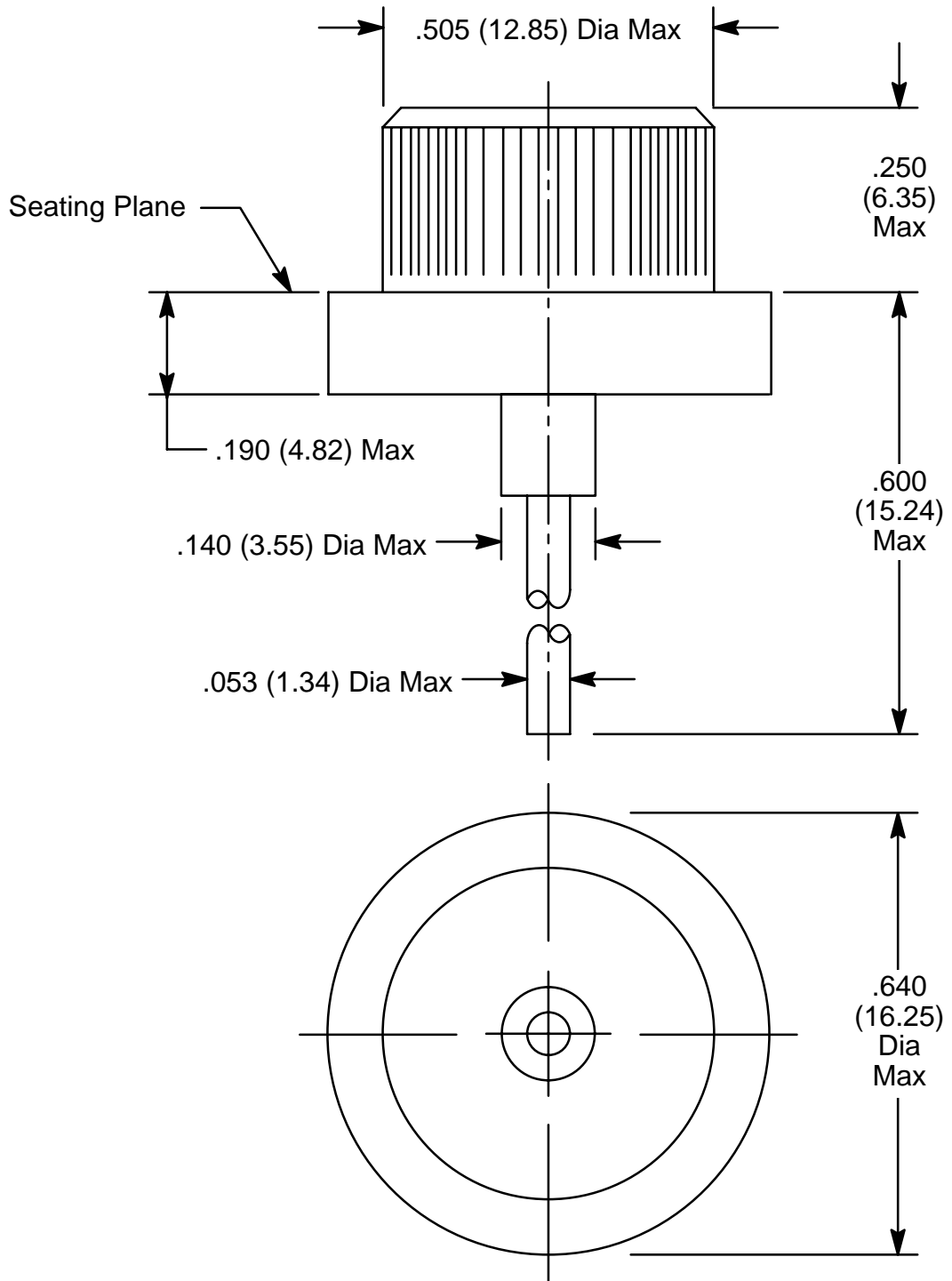## Absolute Maximum Ratings:

Peak Repetitive Reverse Voltage, $V_{RRM}$
    NTE5962, NTE5963* . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 400V
    NTE5966, NTE5967* . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 800V
Working Peak Reverse Voltage, $V_{RWM}$
    NTE5962, NTE5963* . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 400V
    NTE5966, NTE5967* . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 800V
DC Blocking Voltage, $V_B$
    NTE5962, NTE5963* . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 400V
    NTE5966, NTE5967* . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 800V
RMS Reverse Voltage, $V_{R(RMS)}$
    NTE5962, NTE5963* . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 280V
    NTE5966, NTE5967* . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 560V
Average Rectified Forward Currnt (Single phase, resistive load, 60Hz, $T_C$ = +150°C), $I_O$ . . . . . 25A
Non–Repetitive Peak Surge Current (Surge applied at rated load conditions), $I_{FSM}$ . . . . . . . . . 300A
Operating Junction Temperature Range, $T_J$ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . –65° to +175°C
Storage Temperature Range, $T_{stg}$ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . –65° to +175°C
Maximum Thermal Resistance, Junction–to–Case, $R_{thJC}$ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1.2°C/W

Note  1. Standard polarity is cathode to case, (*) indicated anode to case.

## Electrical Characteristics:

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Instantaneous Forward Voltage | $v_F$ | $i_F$ = 57A, $T_J$ = +25°C | – | – | 1.7 | V |
| Reverse Current | $i_R$ | $V_{RRM}$ = Rated Voltage, $T_C$ = +25°C | – | – | 1.0 | mA |

.505 (12.85) Dia Max

.250
(6.35)
Max

Seating Plane

.190 (4.82) Max

.140 (3.55) Dia Max

.600
(15.24)
Max

.053 (1.34) Dia Max

.640
(16.25)
Dia
Max

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