



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

NTE6354 thru NTE6365 Silicon Power Rectifier Diode 300 Amp, DO9

Features:

- Diffused Diode
- High Voltage Ratings up to 1600 Volts
- High Surge Current Capabilities
- Available in Cathode-to-Case (Standard) or Anode-to-Case (Reverse Polarity) Style

Ratings and Characteristics:

| | |
|---|------------------------|
| Average Forward Current ($T_C = +130^\circ\text{C Max}$), $I_{F(AV)}$ | 300A |
| Maximum Repetitive Peak Reverse Voltage, V_{RRM} | |
| NTE6354, NTE6355* | 400V |
| NTE6356, NTE6357* | 600V |
| NTE6358, NTE6359* | 1000V |
| NTE6362, NTE6363* | 1400V |
| NTE6364, NTE6365* | 1600V |
| Maximum Non-Repetitive Peak Reverse Voltage, V_{RSM} | |
| NTE6354, NTE6355* | 500V |
| NTE6356, NTE6357* | 720V |
| NTE6358, NTE6359* | 1200V |
| NTE6362, NTE6363* | 1500V |
| NTE6364, NTE6365* | 1700V |
| Maximum Repetitive Peak Reverse Current ($T_J = +200^\circ\text{C}$), I_{RRM} | |
| NTE6354, NTE6355* | 40mA |
| NTE6356, NTE6357* | 40mA |
| NTE6358, NTE6359* | 30mA |
| NTE6362, NTE6363* | 30mA |
| NTE6364, NTE6365* | 30mA |
| Maximum Forward Surge Current, I_{FSM} | |
| 50Hz | 5000A |
| 60Hz | 5200A |
| Fusing Current, I^2t | |
| 50Hz | 214000A ² s |
| 60Hz | 195000A ² s |
| Operating Junction Temperature, T_J | -40° to +180°C |

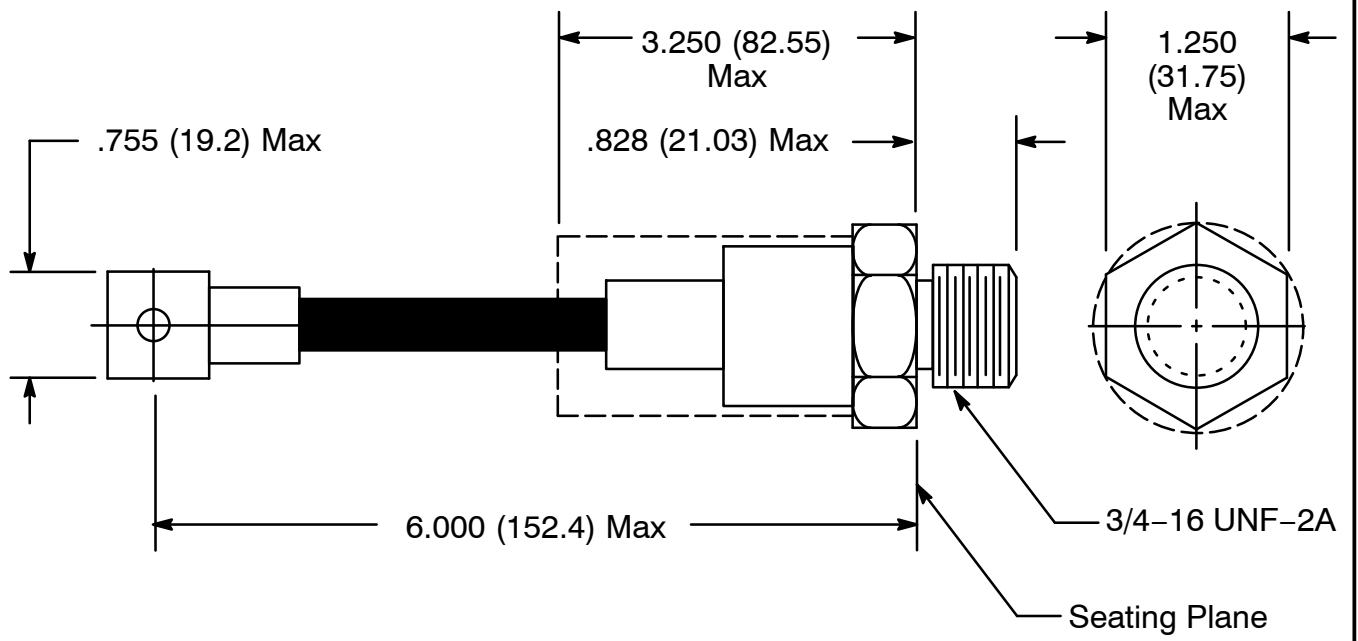
* Indicated Anode-to-Case polarity, Cathode-to-Case polarity is standard.

Electrical Specifications:

| Parameter | Symbol | Test Conditions | | Rating | Unit | |
|---|---------------|---|--------------------------|---|---------------|---|
| Maximum Average Forward Current | $I_{F(AV)}$ | 180° sinusoidal condition, $T_C = +130^\circ\text{C}$ Max | | 300 | A | |
| Maximum Peak One-Cycle Non-Repetitive Surge Current | I_{FSM} | t = 10ms | No voltage reapplied | Sinusoidal half wave, Initial $T_J = T_J$ max | 5000 | A |
| | | t = 8.3ms | | | 5200 | A |
| | | t = 10ms | 100% V_{RRM} reapplied | | 3800 | A |
| | | t = 8.3ms | | | 4000 | A |
| Maximum I^2t for Fusing | I^2t | t = 10ms | No voltage reapplied | 214000 | A^2s | |
| | | t = 8.3ms | | 195000 | A^2s | |
| Maximum I^2t for Individual Device Fusing | I^2t | t = 10ms | 100% V_{RRM} reapplied | 151000 | A^2s | |
| | | t = 8.3ms | | 138000 | A^2s | |
| Maximum $I^2\sqrt{t}$ | $I^2\sqrt{t}$ | t = 0.1 to 10ms, no voltage reapplied | | 2140000 | $A^2\sqrt{t}$ | |
| Maximum Value of Threshold Voltage | $V_{M(TO)}$ | $T_J = +200^\circ\text{C}$ | | 0.610 | V | |
| Maximum Value of Forward Slope Resistance | r_t | $T_J = +200^\circ\text{C}$ | | 0.751 | $m\Omega$ | |

Thermal-Mechanical Specifications:

| Parameter | Symbol | Test Conditions | Rating | Unit |
|--|------------|---|----------------|--------------------------------|
| Maximum Operation Junction Temperature | T_J | | -40 to + 180 | $^\circ\text{C}$ |
| Maximum Storage Temperature | T_{stg} | | -55 to + 180 | $^\circ\text{C}$ |
| Maximum Internal Thermal Resistance Junction-to-Case | R_{thJC} | DC operation | 0.18 | K/W |
| Thermal Resistance, Case-to-Sink | R_{thCS} | Mounting surface flat, smooth and greased | 0.08 | K/W |
| Mounting Torque | T | Non-lubricated threads | 40.06 (360) | $m\cdot N$ ($in\cdot lb$) |



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