



ELECTRONICS, INC.
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NTE5962 & NTE5963 NTE5966 & NTE5967 Silicon Power Rectifier Diode, 25 Amp

Features:

- 25 Amp @ $T_C = +100^\circ\text{C}$
- 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 Current (Single phase, resistive load, 60Hz, $T_C = +150^\circ\text{C}$), 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 $+175^\circ\text{C}$ | |
| Storage Temperature Range, T_{stg} | |
| -65° to $+175^\circ\text{C}$ | |
| 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 | $i_F = 57\text{A}$, $T_J = +25^\circ\text{C}$ | - | - | 1.7 | V |
| Reverse Current | i_R | $V_{RRM} = \text{Rated Voltage}$, $T_C = +25^\circ\text{C}$ | - | - | 1.0 | mA |

