

**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 Currnt (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, $T_J$	.....	$-65^\circ$ to $+175^\circ\text{C}$
Storage Temperature Range, $T_{stg}$	.....	$-65^\circ$ 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

