

## NTE6240 & NTE6244 Silicon Rectifier Super Fast, Dual, Center Tap

### Features:

- Dual Rectifier Construction:
  - NTE6240– Positive Center–Tap
  - NTE6244– Negative Center–Tap
- Superfast Recovery Times, High Voltage
- Low Power Loss, High Efficiency
- Low Forward Voltage, High Current Capability
- High Temperature Soldering Guaranteed: +250°C @ .250" (6.35mm) from Case for 10sec

### Applications:

- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications

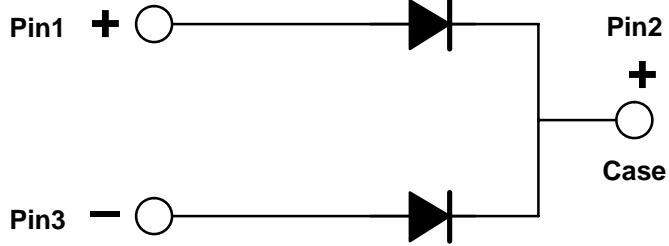
**Maximum Ratings and Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$ , resistive or inductive load, for capacitive load, derate current by 20%, unless otherwise specified)

Maximum Recurrent Peak Reverse Voltage, $V_{RRM}$ .....	200V
Maximum RMS Voltage, $V_{RMS}$ .....	140V
Maximum DC Blocking Voltage, $V_{DC}$ .....	200V
Maximum Average Forward Rectified Current (.375 (9.5) Lead Lengths at +100°C), $I_{(AV)}$ .....	16A
Peak Forward Surge Current, $I_{FSM}$	
8.3ms single half sine–wave superimposed on rated load .....	100A
Maximum Instantaneous Forward Voltage (Per Diode, $I_O = 8A$ ), $V_F$ .....	975mV
Maximum DC Reverse Current ( $V_{DC} = 200V$ ), $I_R$	
$T_A = +25^\circ\text{C}$ .....	5 $\mu$ A
$T_A = +100^\circ\text{C}$ .....	50 $\mu$ A
Maximum Reverse Recovery Time ( $T_J = +25^\circ\text{C}$ , Note 1), $t_{rr}$ .....	35ns
Typical Thermal Resistance, Junction–to–Case, $R_{thJC}$ .....	5.5°C/W
Operating Junction Temperature Range, $T_J$ .....	–65° to +150°C
Storage Temperature Range, $T_{stg}$ .....	–65° to +150°C

Note 1. Reverse Recovery Test Conditions:  $I_F = 5A$ ,  $I_R = 1A$ ,  $I_{RR} = 25A$

Note 2. Measured at 1MHz and applied reverse voltage of 4V.

NTE6240



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