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

NTE6249 & NTE6250
Silicon Rectifier, Ultrafast
10 Amp, TO–220 Full Pack

Features:
- Glass Passivated Die Construction
- Ultrafast 50nS and 100nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Ideally Suited for Use in High Frequency SMPS, Inverters, and As Free Wheeling Diodes
- Epoxy Meets UL 94V–0 Classification

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified. Single Phase, Half Wave, 60Hz, Resistive or Inductive Load. For Capacitive Load, Derate Current by 20%)

Peak Repetitive Reverse Voltage, V_{RRM}
- NTE6249 . . . . . 200V
- NTE6250 . . . . . 800V

Working Peak Reverse Voltage, V_{RWM}
- NTE6249 . . . . . 200V
- NTE6250 . . . . . 800V

DC Blocking Voltage, V_R
- NTE6249 . . . . . 200V
- NTE6250 . . . . . 800V

RMS Reverse Voltage $V_{R(RMS)}$
- NTE6249 . . . . . 140V
- NTE6250 . . . . . 560V

Average Rectified Output Current (T_C = +100°C), I_O 10A

Non–Repetitive Peak Forward Surge Current, I_{FSM}
(8.3ms Single Half Sine–Wave Superimposed on Rated Load) 150A

RMS Isolation Voltage (t = 1 min), V_{ISO} 1500V

Operating Junction Temperature Range, T_J . . . . . –55° to +150°C

Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

Thermal Resistance, Junction–to–Ambient, R_{thJA} . . . . . 75°C/W

Thermal Resistance, Junction–to–Case, R_{thJC} . . . . . 5°C/W

Rev. 6–17

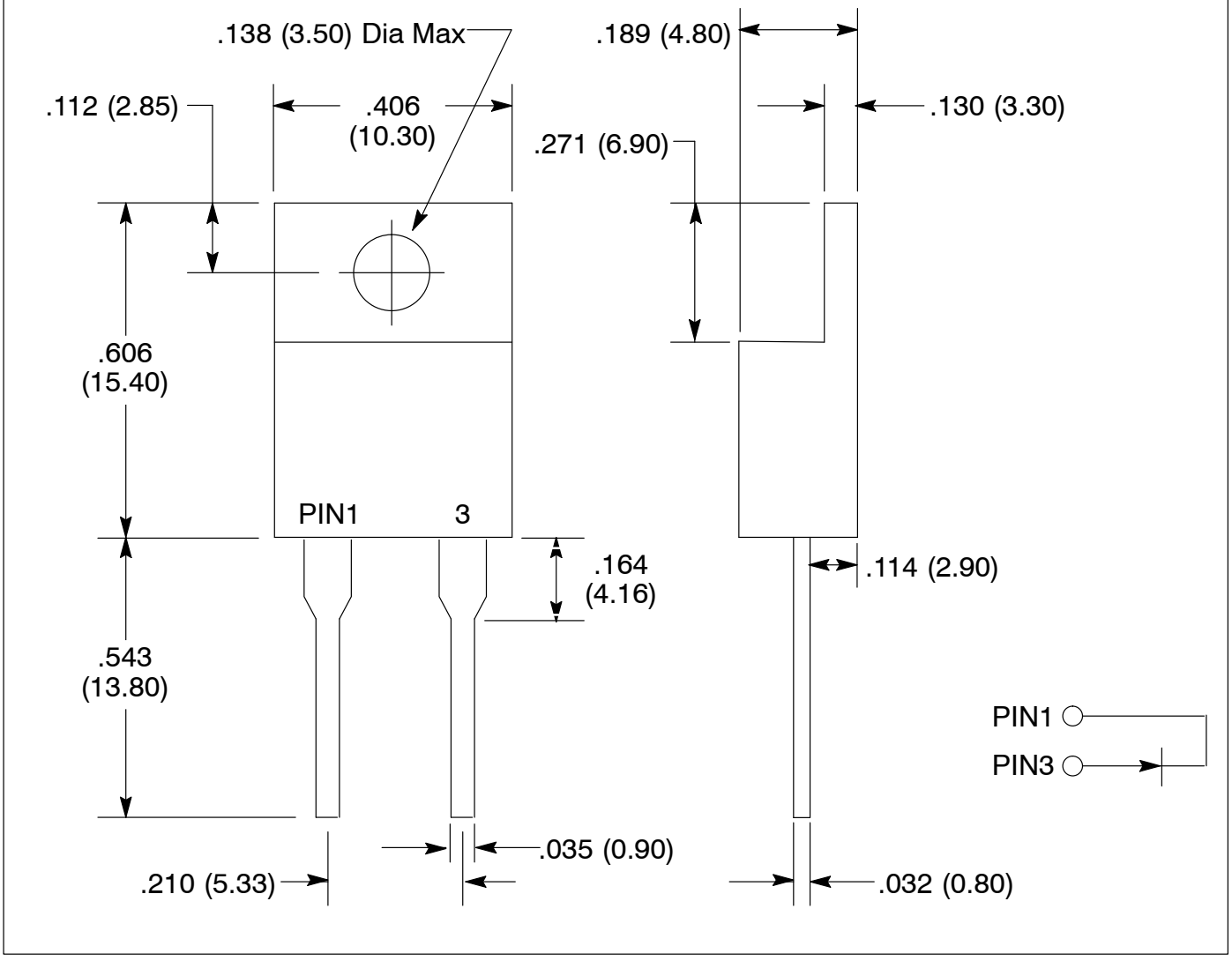
RoHS

Electrical Characteristics: (T_A = +25°C unless otherwise specified. Single Phase, Half Wave, 60Hz, Resistive or Inductive Load. For Capacitive Load, Derate Current by 20%)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage						
NTE6249	V_{FM}	I_F = 10A	–	1.0	–	V
NTE6250			–	1.7	–	V
Peak Reverse Current	I_{RM}	T_A = +25°C	–	10	–	A
At Rated DC Blocking Voltage		T_A = +125°C	–	500	–	A
Reverse Recovery Time						
NTE6249	t_{rr}	I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A, Note 1	–	50	–	nS
NTE6250			–	100	–	nS
Typical Junction Capacitance						
NTE6249	C_J	Note 1	–	80	–	pF
NTE6250			–	50	–	pF

Note 1. Measured at 1.0 MH_Z and applied reverse voltage of 4.0V D.C.

All Dimensions Maximum Value



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for nte ***manufacturer:***

Other Similar products are found below :

747 797 868 1724 NEH680M50FE NEHH1.0M450CB NTE48 NTE526A 228A 231 954 2023 510 R04-11A30-120 04-SLPE3750A 5615 591 7056 NTE5710 7448 NEH.10M50AA NEH2.2M63AA NEH330M35DD NEH33M10AA NEV.22M100AA TP0006-100 NTE182 NTE528 NTE542 NTE74154 WH20-02-25 04-SCBW25L-BK 04-SCBW32L-BK 04-SCW10C-BK 04-SCBW19L-GR 04-SCW19L-WH 04-SCW19L-OR 04-SCW38L-WH 04-SCBW50L-OR 04-SCBW50L-GR 04-SCW10C-GR 04-SCW10C-OR 04-SCBW32L-GR 04-SCBW32L-WH 04-SCBW32L-OR 04-SCBW6C-WH 04-SCBW6C-GR 04-SCBW6C-OR 04-SCBW25L-GR 04-SCBW25L-WH