



ELECTRONICS, INC.
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NTE5934 & NTE5935 Industrial Rectifier 75 Amp, Ultra High Power, Heavy Duty, Press Fit

Features:

- Available in Cathode-to-Case (NTE5934) or Anode-to-Case (NTE5935)
- Void Free Vacuum Die Soldering for Maximum Mechanical Strength and Heat Dissipation
- Huge Round Die for Ultra High Power and Heavy Duty Performance
- Press Fit into Heat Sink to Further Enhance Heat Handling Capability
- High Temperature Junction Passivation for Superior Reliability and Performance
- Low Thermal Stress Structure – Pass 5 Cycle (–55° to +150°C) Thermal Shock Test

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Maximum Recurrent Peak Reverse Voltage, V_{RRM}	400V
Working Peak Reverse Voltage, V_{RWM}	400V
Maximum DC Blocking Voltage, V_{DC}	400V
Non-Repetitive Peak Reverse Voltage (Half Wave, 60Hz, Single Phase), V_{RSM}	480V
Average Forward Rectified Current, I_O	75A
Non-Repetitive Peak Forward Surge Current, I_{FSM} (Half Wave, Single Phse, 60Hz, Sine Applied to rated Load)	800A
Operating Junction Temperature Range, T_J	–65° to +215°C
Storage Temperature Range, T_{stg}	–65° to +215°C
Maximum Soldering Temperature (1/4" from case, 10sec max)	+250°C
Mounting Position	Any
Maximum Mounting Force	12KN

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage Drop	V_F	$I_F = 75A$	–	1.05	1.15	V
DC Reverse Current	I_R	$V_{DC} = 400V, T_C = +25^\circ\text{C}$	–	–	2	A

