ELECTRONICS, INC.
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RoHS 2002/95/EC

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

Features:

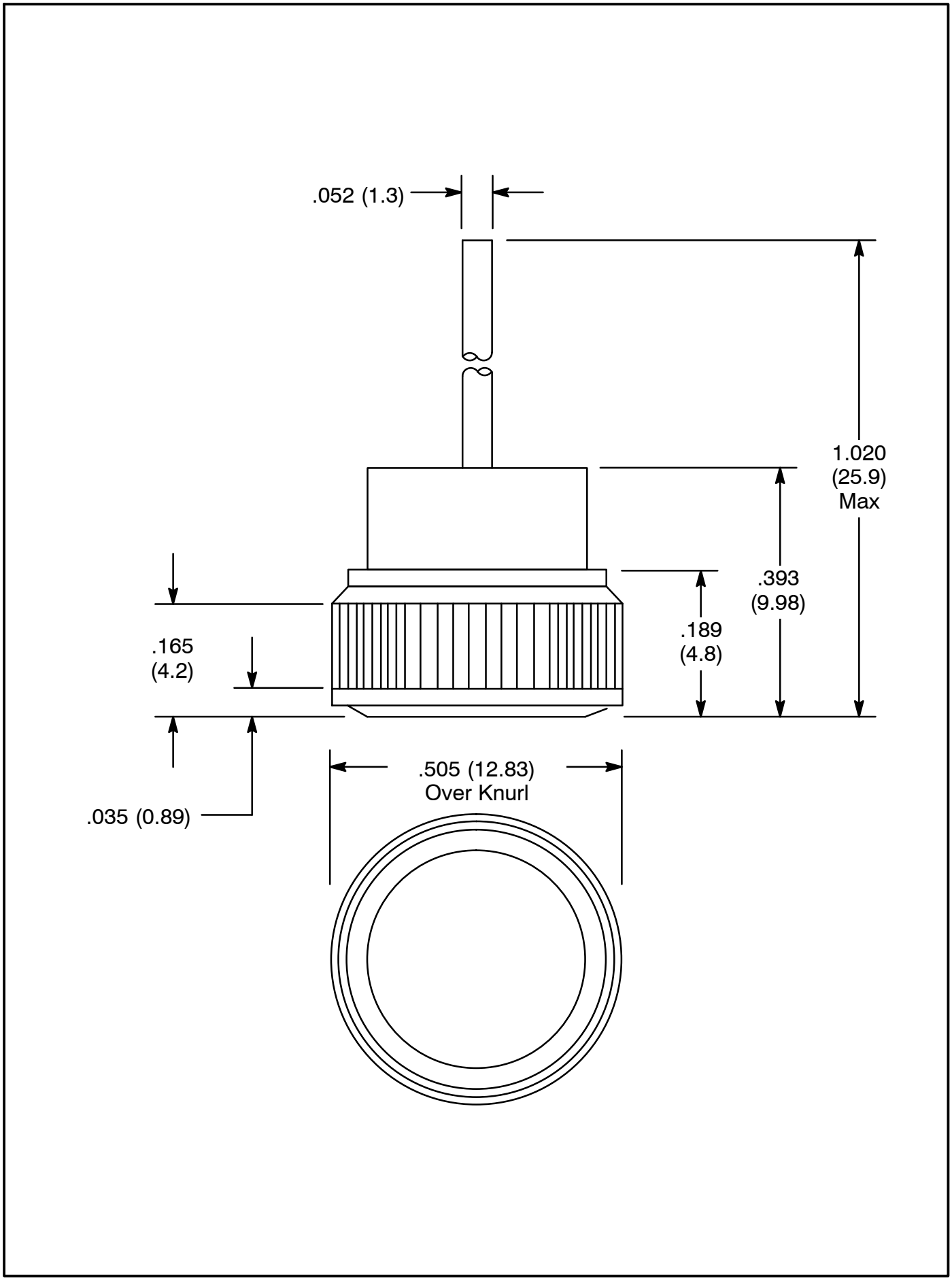
- Available in Cathode–to–Case (NTE5934) or Anode–to–Case (NTE5935)
- Void Free Vacuum Die Soldering for Maximum Mechanical Strength and Heat Dissipation
- Huge Round Die for Ultra High Power and Heavy Duty Performance
- Press Fit into Heat Sink to Further Enhance Heat Handling Capability
- High Temperature 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°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°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°C	–	–	2	µA


.052 (1.3)
1.020
(25.9)
Max
.393
(9.98)
.189
(4.8)
.165
(4.2)
.505 (12.83)
Over Knurl
.035 (0.89)