ELECTRONICS, INC.
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NTE6048 thru NTE6073
Industrial Silicon Rectifier, 70A

Description:

The NTE6048 thru NTE6073 power rectifiers are stud mounted DO5 packages. Because the silicon junction is carefully fitted within a glass–to–metal hermetically sealed case, reliable operation is assured, even with extreme humidity and under other severe environmental conditions. These power rectifiers are completely corrosion resistant.

A double diffused, passivated junction technique is utilized to provide stable uniform electrical characteristics, Inherent in their design are very low leakage currents and excellent surge handling capability. These NTE power rectifiers are available in both anode–to–case and cathode–to–case polarity in offering extended application parameters.

NTE silicon power rectifiers are ideal for a broad range of commercial uses including power supplies, ultrasonic systems, inverters, welders, emergency generators, battery chargers, DC motor, and motor controls.

Electrical Ratings and Characteristics:

Maximum Peak Reverse Voltage (Note 1), P_{RV}

NTE6048, NTE6049*	50V
NTE6050, NTE6051*	100V
NTE6054, NTE6055*	200V
NTE6058, NTE6059*	300V
NTE6060, NTE6061*	400V
NTE6064, NTE6065*	600V
NTE6068, NTE6069*	800V
NTE6072, NTE6073*	1000V

Maximum Forward Current (Single Phase Half Wave, T_C = +138°C), I_O 70A

Maximum Surge Current (Single Cycle), I_{FSM} 1200A

Maximum Forward Voltage Drop (I_O = 20mA, T_C = +25°C), V_F 1.25V

Maximum Reverse Current (FCA @ +150°C), I_R 2mA

Maximum I^2t (< 8ms) . . . . . 6000A^2Sec

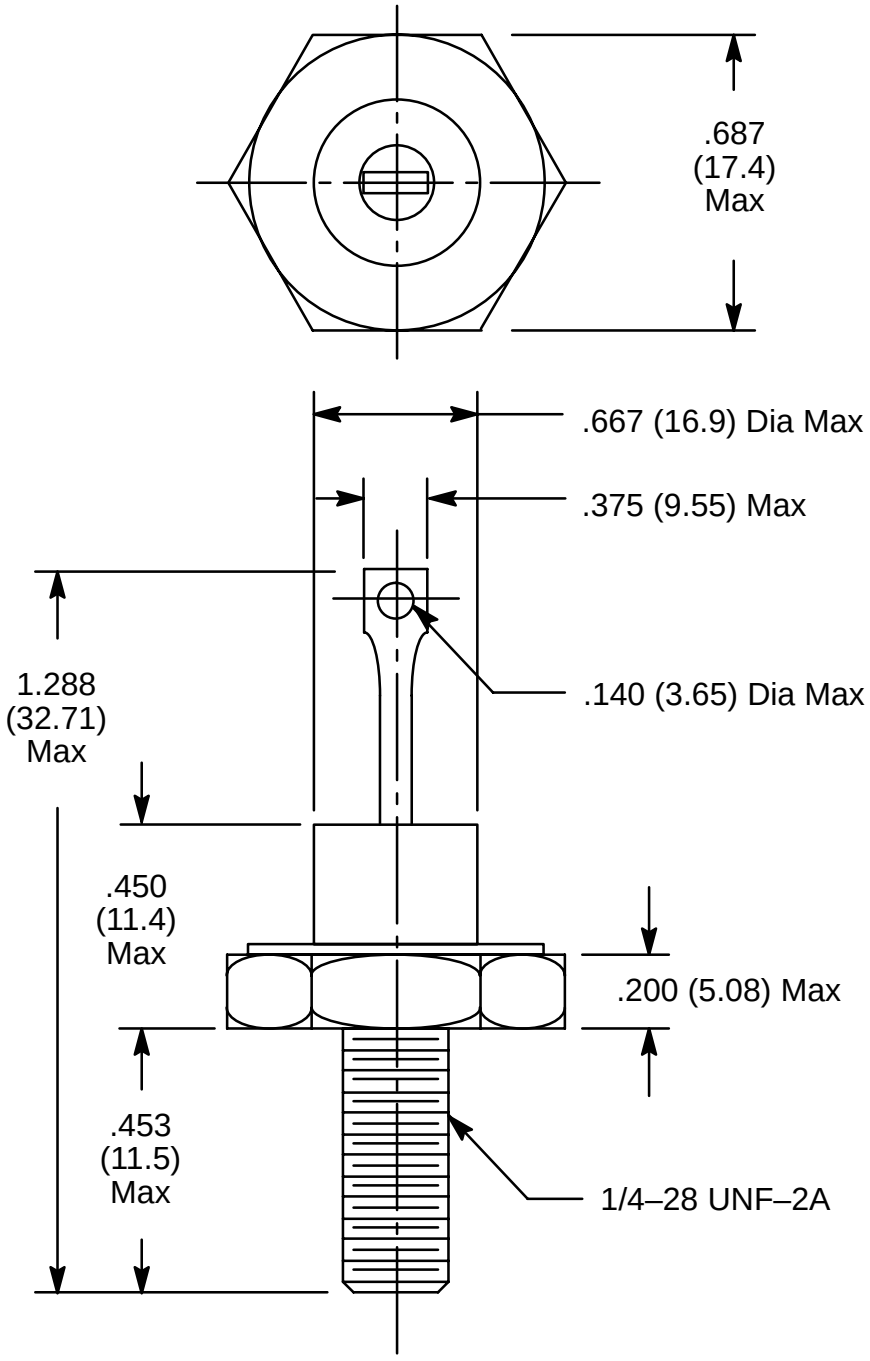
Reverse Power for Bulk Avalanche . . . . . 0.6 Joules

Operating Temperature Range, T_{opr} . . . . . –65° to +190°C

Storage Temperature Range, T_{stg} . . . . . –65° to +200°C

Maximum Thermal Impedance, Junction–to–Case, T_{thJC} . . . . . 0.65°C/W

Note 1. * Indicates anode–to–case polarity.


.687
(17.4)
Max
.667 (16.9) Dia Max
.375 (9.55) Max
1.288
(32.71)
Max
.140 (3.65) Dia Max
.450
(11.4)
Max
.200 (5.08) Max
.453
(11.5)
Max
1/4–28 UNF–2A