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NTE ELECTRONICS, INC.

NTE6248
Silicon Fast Rectifier

Features:
- High Reliability
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability

Maximum Ratings and Electrical Characteristics:
(T_A = +25°C unless otherwise specified. Resistive or inductive load.)

Maximum Recurrent Peak Reverse Voltage, V_{RRM} 600V
Maximum Average Rectified Forward Current (.375 (9.5) Lead Length, T_C = +100°C), $I_{F(AV)}$. 16A
Non−Repetitive Peak Forward Surge Current (8.3ms Single Half Sine−Wave), I_{FSM} 250A
Power Dissipation, P_D 7.81W
Maximum Instantaneous Forward Voltage (I_F = 16A), V_F 1.5V
Maximum DC Reverse Current (Rated DC Blocking Voltage), I_R
T_A = +25°C 10µA
T_A = +100°C 500µA
Maximum Reverse Recovery Time (Note 1), t_{rr} 50ns
Total Capacitance (Note 2), C_T 145pF
Thermal Resistance, Junction−to−Ambient, R_{thJA} . . . . . 16°C/W
Thermal Resistance, Junction−to−Lead, R_{thJL} . . . . . 1.2°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 = 500mA, I_R = 1A, I_{RR} = 250mA.
Note 2. Measured at 1MHz and applied reverse voltage of 4V.

Rev. 10−12

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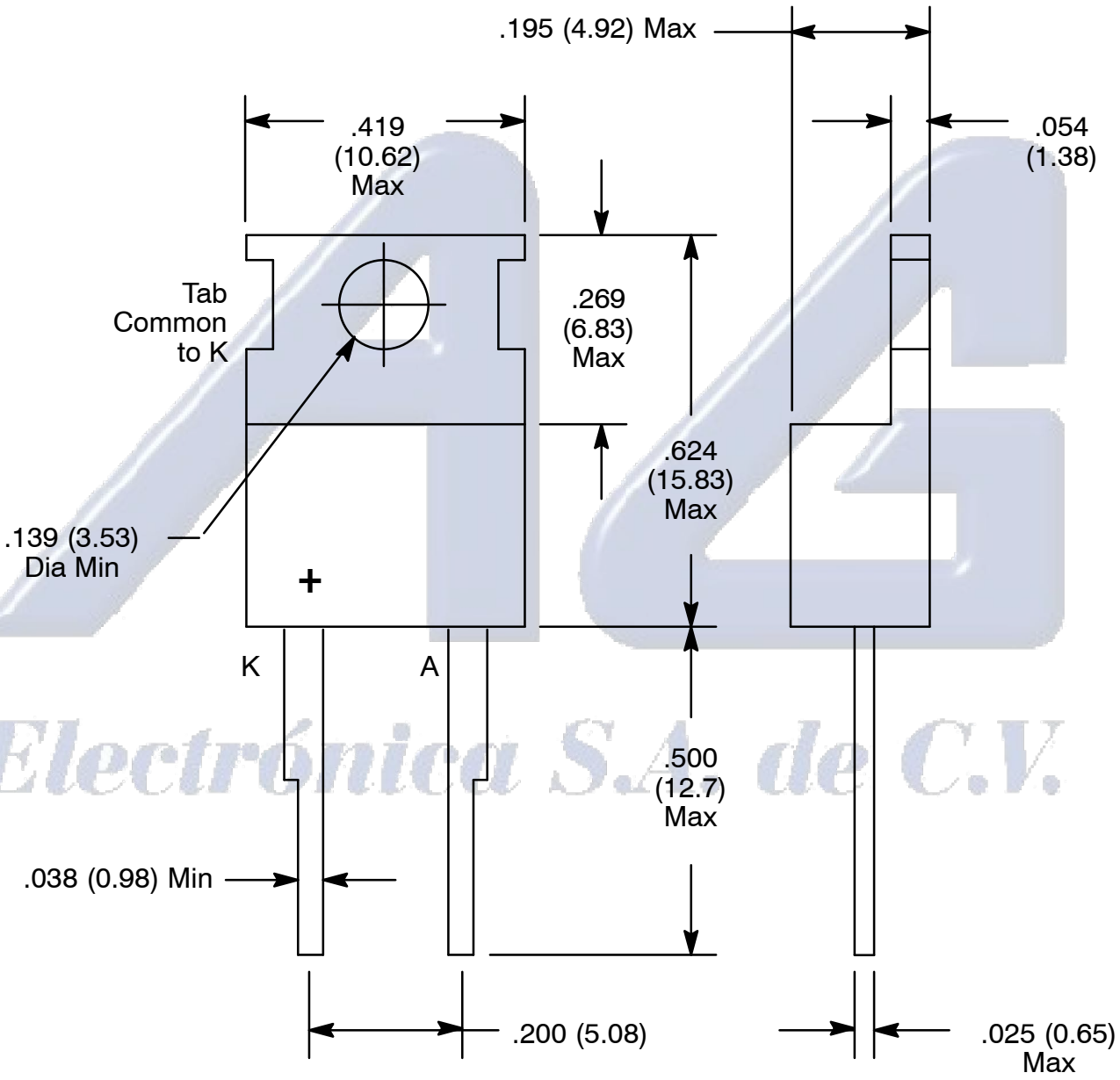

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