ELECTRONICS, INC.
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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

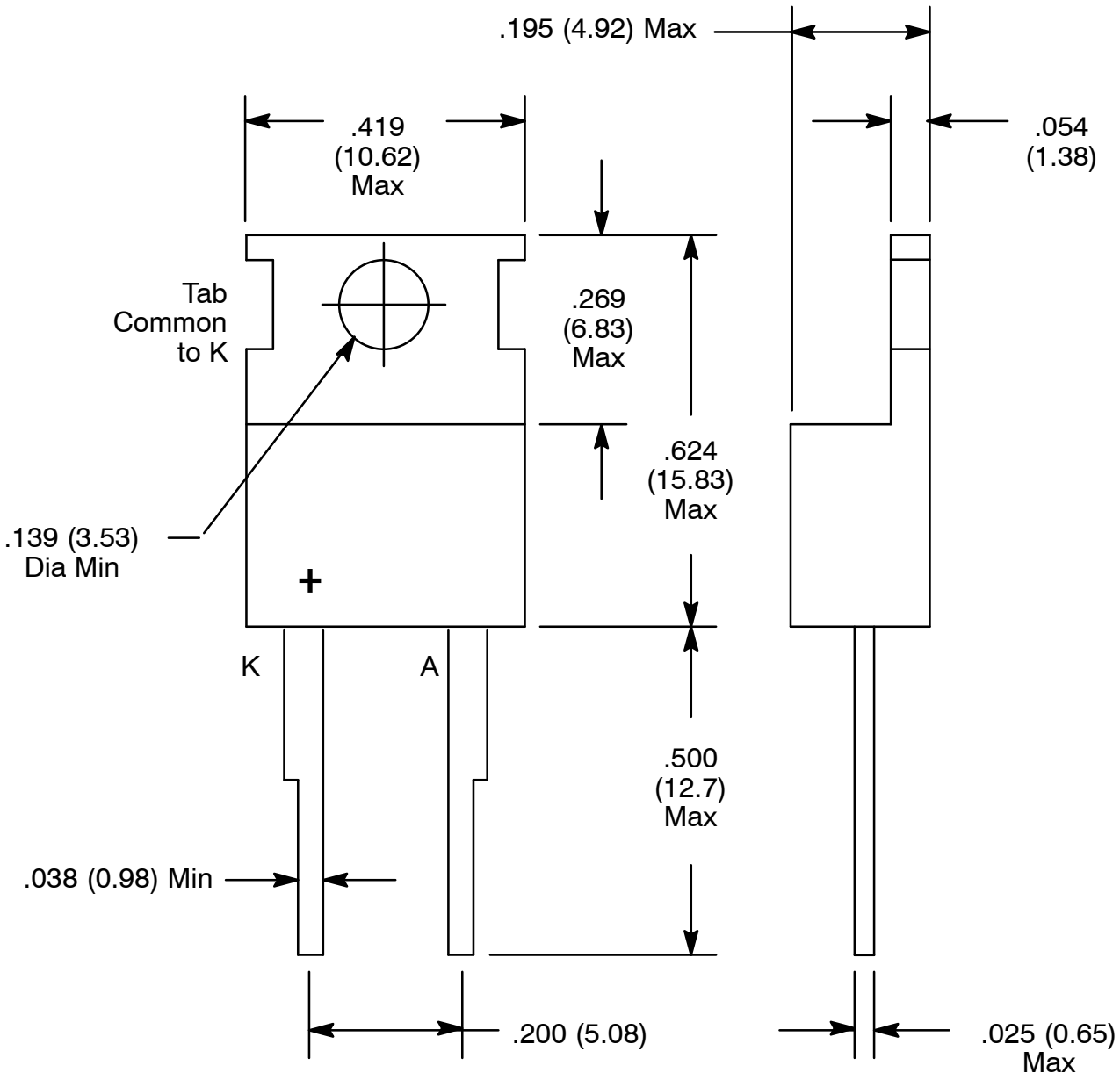
Thermal Resistance, Junction–to–Lead, R_{thJL} . . . . . 1.2°C/W

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.


.195 (4.92) Max
.419
(10.62)
Max
.054
(1.38)
Tab
Common
to K
.269
(6.83)
Max
.624
(15.83)
Max
.139 (3.53)
Dia Min
+
K
A
.500
(12.7)
Max
.038 (0.98) Min
.200 (5.08)
.025 (0.65)
Max