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## NTE6081 Silicon Schottky Barrier Rectifier 45V, 16 Amps, 2-Lead TO220

**Description:**

The NTE6081 is a silicon switchmode power rectifier using the Schottky Barrier principle with a platinum barrier metal.

**Features:**

- Guardring for Stress Protection
- Low Forward Voltage
- +150°C Operating Junction Temperature
- Guaranteed Reverse Avalanche

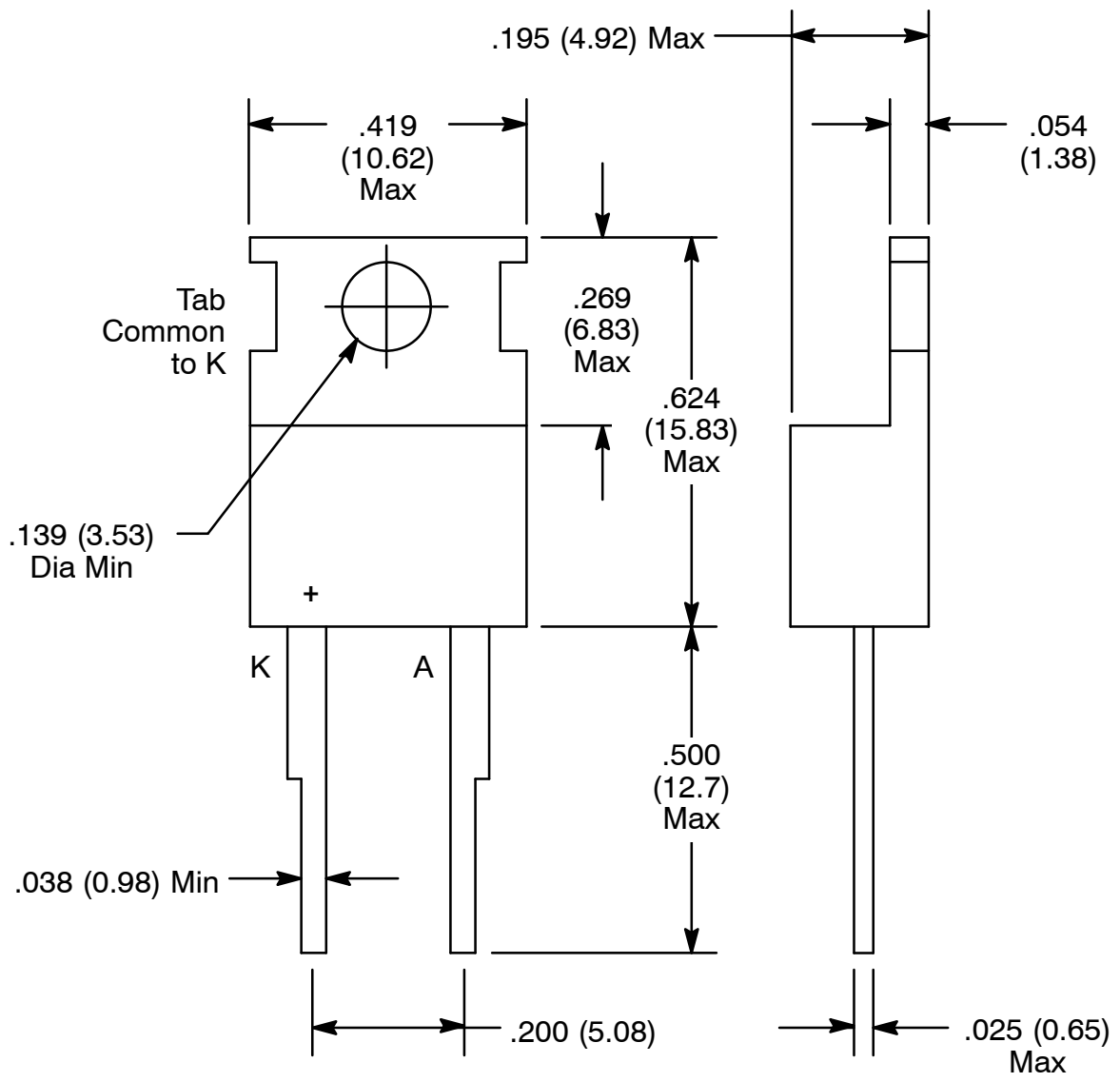
**Absolute Maximum Ratings:**

Peak Repetitive Reverse Voltage, $V_{RRM}$ .....	45V
Working Peak Reverse Voltage, $V_{RWM}$ .....	45V
DC Blocking Voltage, $V_R$ .....	45V
Average Rectified Forward Current ( $V_R = 45V$ , $T_C = +125^\circ C$ ), $I_{F(AV)}$ .....	16A
Peak Repetitive Forward Current ( $V_R = 45V$ , Square Wave, 20kHz, $T_C = +125^\circ C$ ), $I_{FRM}$ .....	32A
Non-Repetitive Peak Surge Current, $I_{FSM}$ (Surge applied at rated load conditions halfwave, single phase, 60Hz) .....	150A
Peak Repetitive Reverse Surge Current (2.0 $\mu$ s, 1.0kHz), $I_{RRM}$ .....	1A
Operating Junction Temperature Range, $T_J$ .....	-65° to +150°C
Storage Temperature Range, $T_{stg}$ .....	-65° to +175°C
Voltage Rate of Change ( $V_R = 45V$ ), $dv/dt$ .....	1000V/ $\mu$ s
Maximum Thermal Resistance, Junction-to-Case, $R_{thJC}$ .....	1.5°/W

**Electrical Characteristics:** (Note 1)

Maximum Instantaneous Forward Voltage ( $i_F = 16A$ ), $v_F$	
$T_C = +125^\circ C$ .....	0.57V
$T_C = +25^\circ C$ .....	0.63V
Maximum Instantaneous Reverse Current (Rated DC Voltage), $i_R$	
$T_C = +125^\circ C$ .....	40mA
$T_C = +25^\circ C$ .....	0.2mA

Note 1. Pulse Test: Pulse Width = 300 $\mu$ s, Duty Cycle  $\leq$  2%.



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