NTE6241
Silicon Rectifier
Super Fast, Dual, Center Tap

Features:

- Dual Positive Center–Tap Rectifier Construction
- Superfast 50ns Recovery Times
- +175°C Operating Junction Temperature
- High Temperature Glass Passivated Junction
- High Voltage Capability to 600V
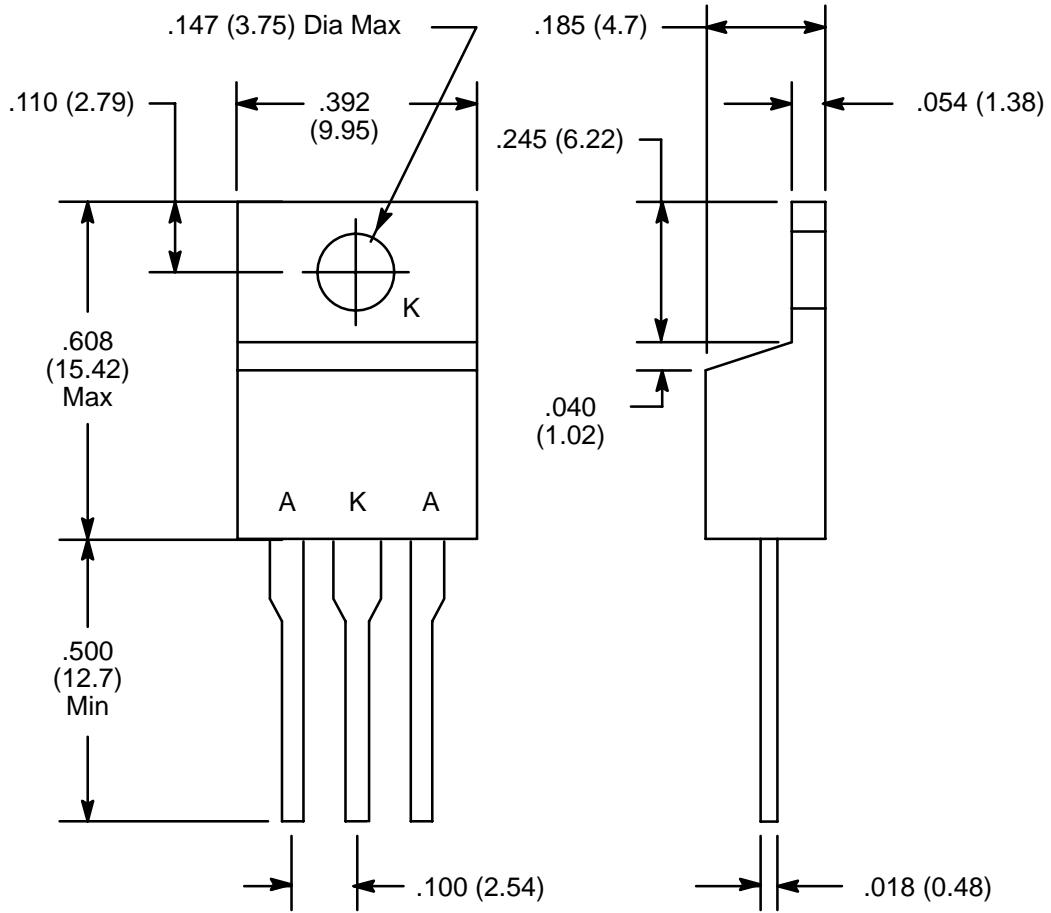- Low Leakage Specified at +150°C Case Temperature

Absolute Maximum Ratings:

Peak Repetitive Reverse Voltage, V_{RRM} 600V

Working Peak Reverse Voltage, V_{RWM} 600V

DC Blocking Voltage, V_R 600V

Average Rectified Forward Current (V_R = 600V, T_C = +150°C), $I_{F(AV)}$
      Per Diode Leg 8A
      Total Device 16A

Peak Repetitive Forward Current, I_{FRM}
      (Per Diode Leg, V_R = 600V, Square Wave, 20kHz, T_C = +150°C) 16A

Non–Repetitive Peak Surge Current, I_{FSM}
      (Surge Applied at Rated Load Conditions, Halfwave, Single Phase, 60Hz) 100A

Operating Junction Temperature Range, T_J . . . . −65° to +175°C

Storage Temperature Range, T_{stg} . . . . −65° to +175°C

Thermal Resistance, Junction–to–Case (Per Diode Leg), R_{thJC} . . . . 2°C/W

Electrical Characteristics (Per Diode Leg):

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Instantaneous Forward Voltage	v_F	i_F = 8A, T_C = +150°C, Note 1	–	–	1.20	V
		i_F = 8A, T_C = +25°C, Note 1	–	–	1.50	V
Instantaneous Reverse Current	i_R	V_R = 600V, T_C = +150°C, Note 1	–	–	500	μA
		V, Note 1 $_R$ = 600V, T_C = +25°C	–	–	10	μA
Reverse Recovery Time	t_{rr}	I_F = 1A, di/dt = 50A/μs	–	–	60	ns
		I_F = 0.5A, i_R = 1A, I_{REC} = 0.25A	–	–	50	ns

Note 1. Pulse Test: Pulse Width = 300μs, Duty Cycle ≤ 2%.

.147 (3.75) Dia Max

.110 (2.79)

.392 (9.95)

.185 (4.7)

.054 (1.38)

.245 (6.22)

.608 (15.42) Max

.040 (1.02)

K

A K A

.500 (12.7) Min

.100 (2.54)

.018 (0.48)

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