

NTE597 Silicon Rectifier Ultra Fast, 200V, 8A

Description:

The NTE597 is a silicon rectifier in a 2-Lead TO220 type package designed for use in switching power supplies, inverters and as free wheeling diodes.

Features:

- Ultrafast 50ns Recovery Time
- 175°C Operating Junction Temperature
- Popular TO220 Package
- Epoxy meets UL94, V_O @ 1/8"
- Low Forward Voltage
- Low Leakage Current
- High Temperature Glass Passivated Junction

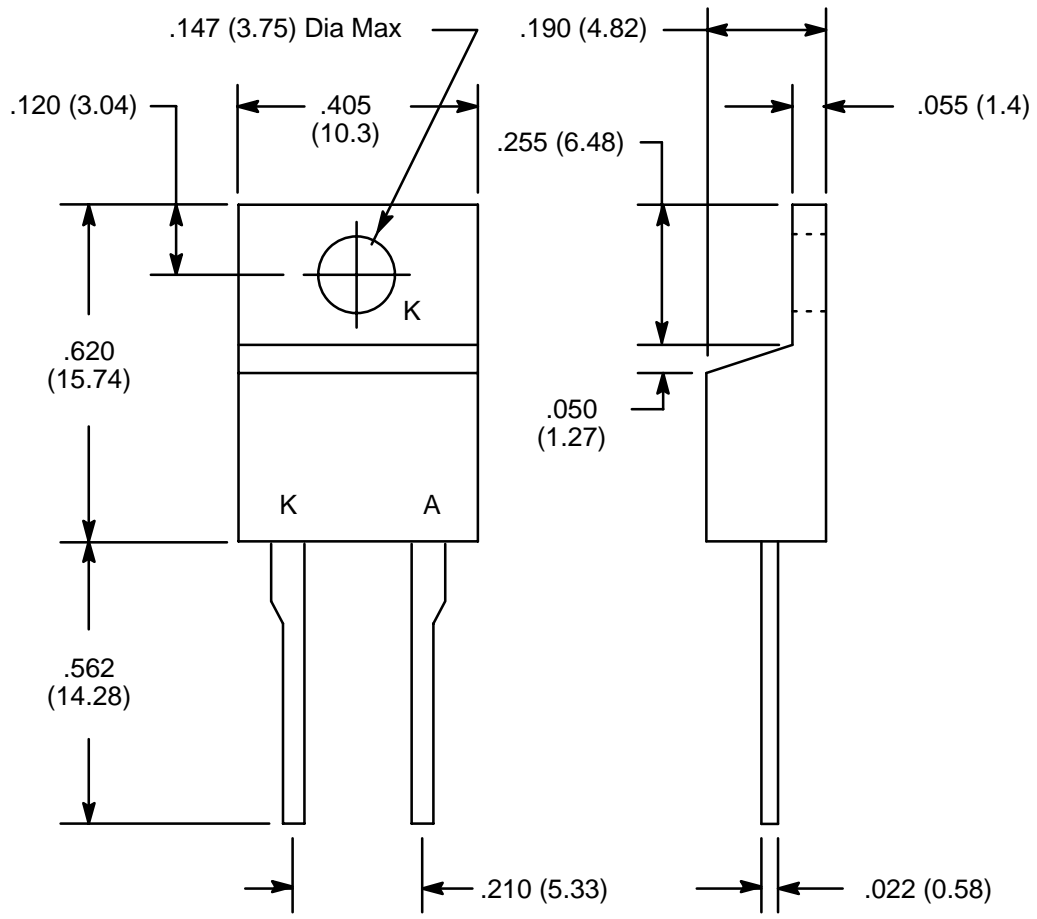
Absolute Maximum Ratings:

Peak Repetitive Reverse Voltage, V _{RRM}	200V
Working Peak Reverse Voltage, V _{RWM}	200V
DC Blocking Voltage, V _R	200V
Average Rectified Forward Current (Total Device, V _R = 200V, T _C = +150°C), I _{F(AV)}	8A
Peak Repetitive Forward Current (V _R = 200V, Square Wave, 20kHz, T _C = +150°C), I _{FM}	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
Maximum Thermal Resistance, Junction-to-Case, R _{thJC}	2.0°C/W

Electrical Characteristics:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Instantaneous Forward Voltage	V _F	i _F = 8A, T _C = +150°C, Note 1	-	-	1.0	V
		i _F = 8A, T _C = +25°C, Note 1	-	-	1.3	V
Instantaneous Reverse Current	i _R	V _R = 200V, T _C = +150°C, Note 1	-	-	500	μA
		V _R = 200V, T _C = +25°C, Note 1	-	-	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 ≤ 2.0%



Note: All dimensions are Max.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [nte manufacturer](#):

Other Similar products are found below :

[747](#) [797](#) [868](#) [1724](#) [NEH680M50FE](#) [NEHH1.0M450CB](#) [NTE48](#) [NTE526A](#) [228A](#) [231](#) [954](#) [2023](#) [510](#) [R04-11A30-120](#) [04-SLPE3750A](#)
[5615](#) [591](#) [7056](#) [NTE5710](#) [7448](#) [NEH.10M50AA](#) [NEH2.2M63AA](#) [NEH330M35DD](#) [NEH33M10AA](#) [NEV.22M100AA](#) [TP0006-100](#)
[NTE182](#) [NTE528](#) [NTE542](#) [NTE74154](#) [WH20-02-25](#) [04-SCBW25L-BK](#) [04-SCBW32L-BK](#) [04-SCW10C-BK](#) [04-SCBW19L-GR](#) [04-](#)
[SCW19L-WH](#) [04-SCW19L-OR](#) [04-SCW38L-WH](#) [04-SCBW50L-OR](#) [04-SCBW50L-GR](#) [04-SCW10C-GR](#) [04-SCW10C-OR](#) [04-SCBW32L-](#)
[GR](#) [04-SCBW32L-WH](#) [04-SCBW32L-OR](#) [04-SCBW6C-WH](#) [04-SCBW6C-GR](#) [04-SCBW6C-OR](#) [04-SCBW25L-GR](#) [04-SCBW25L-WH](#)