NTE6093
Silicon Rectifier
Dual, Schottky Barrier
60V, 60 Amp, TO3P

Description:

The NTE6093 is a silicon rectifier in a TO3P type package designed using the Schottky Barrier principle with a Molybenum barrier metal.
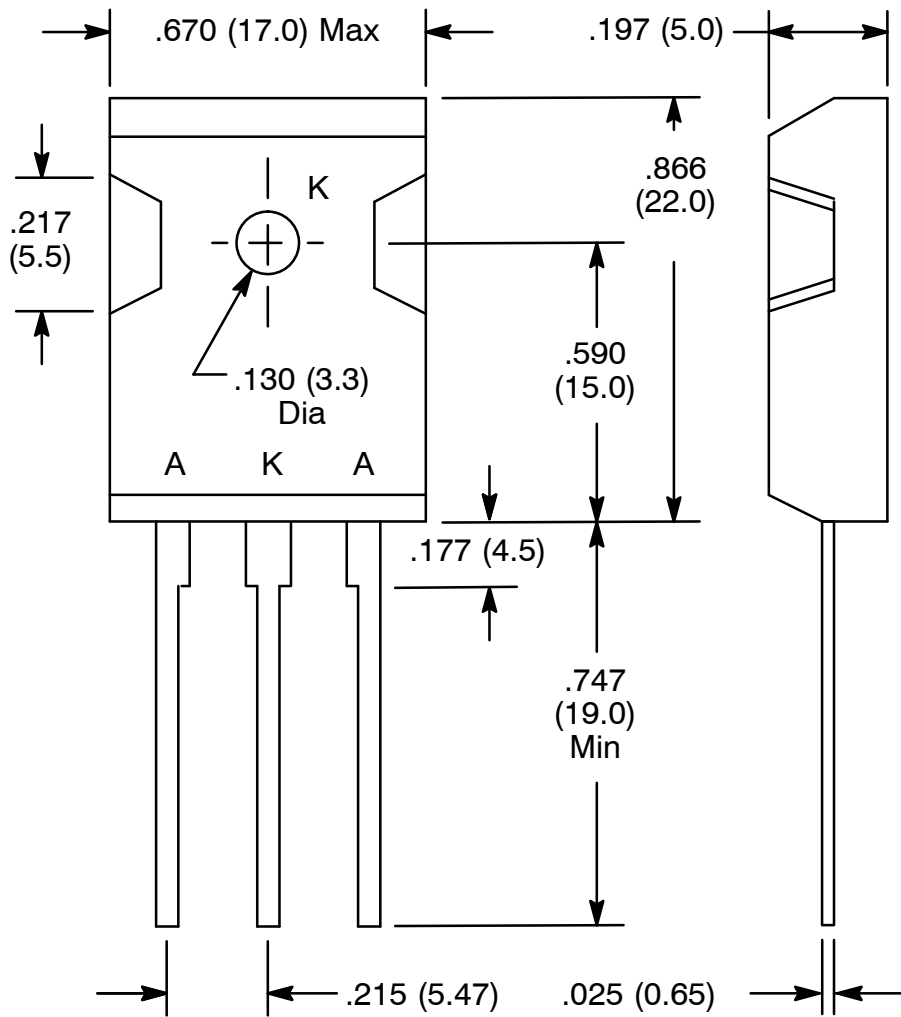
Features:

- Low Forward Voltage
- Guard-Ring for Stress Protection
- Low Power Loss & High Efficiency
- Guarantee Reverse Avalanche
- +125°C Operating Junction Temperature
- High Surge Capacity
- Low Storied Charge majority Carrier Conduction
- Low Switching Noise

Absolute Maximum Ratings:

Peak Repetitive Reverse Voltage, V_{RRM} 60V

Working Peak Reverse Voltage, V_{RWM} 60V

DC Blocking Voltage, V_R 60V

RMS Reverse Voltage, $V_{R(RMS)}$ 42V

Average Rectifier Forward Current (V_R = 60V, T_C = +125°C), $I_{F(AV)}$
      Per Diode 30A
      Total Device 60A

Peak Repetitive Forward Current (V_R = 60V, Square Wave, T_C = +125°C), I_{FM} 60A

Non-Repetitive Peak Surge Current, I_{FSM}
      (Surge Applied at Rated Load Conditions, Halfwave, Single Phase, 60Hz) 600A

Operating Junction Temperature Range, T_J . . . . −65° to +125°C

Storage Temperature Range, T_{stg} . . . . −65° to +125°C

Electrical Characteristics:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Instantaneous Forward Voltage	V_F	$I_F = 30A$, $T_C = +25°C$	–	–	0.63	V
		$I_F = 30A$, $T_C = +125°C$	–	–	0.75	V
Instantaneous Reverse Current	I_R	$V_R = 60V$, $T_C = +25°C$	–	–	10	μA
		$V_R = 60V$, $T_C = +100°C$	–	–	150	μA

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