

$\begin{array}{c} \textbf{NTE5620} \\ \textbf{TRIAC} \\ \textbf{800V}_{\text{RM}}, \, \textbf{8A}, \, \textbf{TO220} \, \, \textbf{Full Pack} \end{array}$

The NTE5620 TRIAC is designed primarily for full-wave AC control applications, such as light dimmers, heater controls, motor controls, and power supplies; or wherever full wave silicon gate controlled solid state devices are needed. TRIAC type thyristors switch from a blocking to a conducting state for either polarity of applied voltage with positive or negative gate triggering.

Features:

- Blocking Voltage 800 Volts
- All Diffused and Glass Passivated Junctions for Greater Parameter Uniformity and Stability
- Small, Rugged, TO220 Full Pack for Low Thermal Resistance, High Heat Dissipation, and Durability
- Gate Triggering Guaranteed in Four Modes

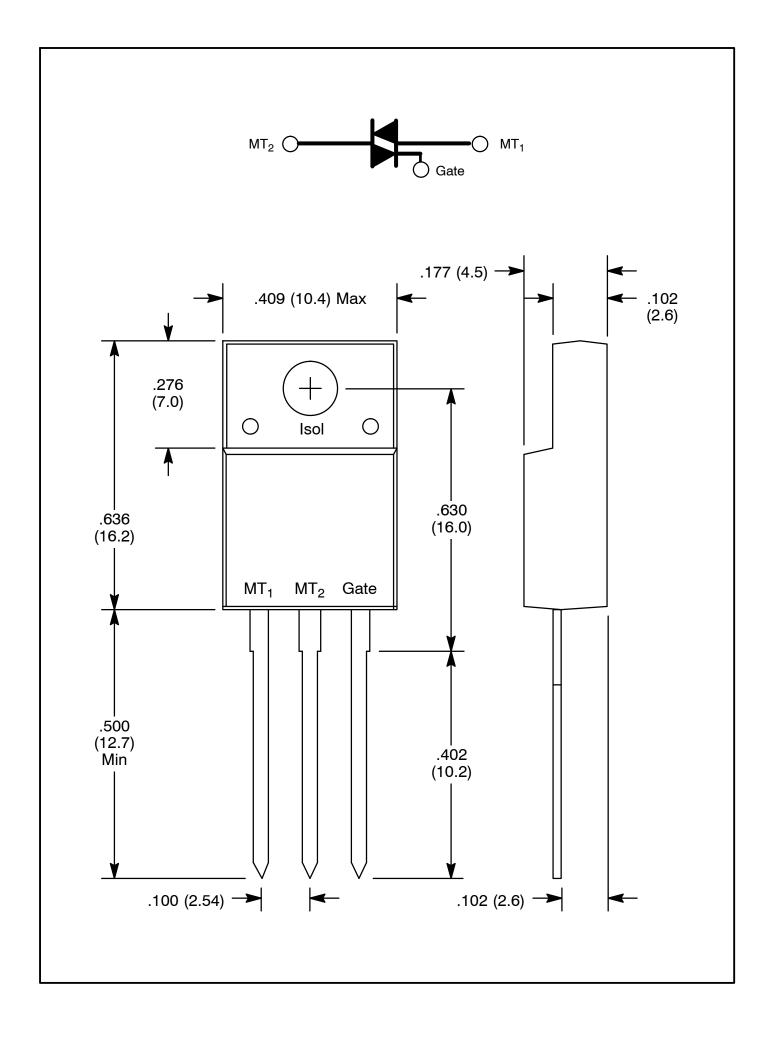
Absolute Maximum Ratings:

Peak Repetitive Off–State Voltage, V_{DRM} (T_J = -40° to $+125^\circ$ C, 1/2 Sine Wave 50 to $60H_Z$, Gate Open, Note 1) 800V
On–State Current RMS, $I_{T(RMS)}$ ($T_C = +80^{\circ}C$, Full Cycle Sine Wave 50 to $60H_Z$, Note 2)
Peak Non–Repetitive Surge Current, I_{TSM} (One Full Cycle, 60Hz, T_C = +125°C, Preceded and followed by rated current) 100A
Peak Gate Power (T _C = +80°C, Pulse Width = 2μs), P _{GM}
Average Gate Power ($T_C = +80^{\circ}C$, $t = 8.3$ ms), $P_{G(AV)}$
Peak Gate Current (Pulse Width = 2μs), I _{GM}
RMS Isolation Voltage (T _A = +25°C, Relative Humidity ≤[20%), V _(ISO)
Operating Junction Temperature Range, T _J
Storage Temperature Range, T _{stg} 40° to +150°C
Thermal Resistance, Junction-to-Case, R _{thJC}
Typical Thermal Resistance, Case-to-Sink, R _{thCS}
Thermal Resistance, Junction-to-Ambient, R _{thJA}

- Note 1. Ratings apply for open gate conditions. Thyristor devices shall not be tested with a constant current source for blocking capability such that the voltage applied exceeds the rated blocking voltage.
- Note 2. The case temperature reference point for all T_C measurements is a point on the center lead of the package as close as possible to the plastic body.

$\underline{\textbf{Electrical Characteristics:}} \text{ (T}_{C} = +25^{\circ}\text{C unless otherwise specified)}$

Characteristics	Symbol	Min	Тур	Max	Unit
Peak Blocking Current (Either Direction) (Rated V_{DRM} , $T_J = +125$ °C, Gate Open)	I _{DRM}	_	-	2	mA
Peak On-State Voltage (Either Direction) (I _{TM} = 11.3A Peak; Pulse Width = 1 to 2ms, Duty Cycle < 2%)	V _{TM}	_	1.7	2.0	V
Peak Gate Trigger Current (Main Terminal Voltage = 12Vdc, R _L = 100 Ohms) MT2(+), G(+) MT2(+), G(-) MT2(-), G(-) MT2(-), G(+)	I _{GT}	1 1 1		50 50 50 75	mA
Peak Gate Trigger Voltage $ \begin{array}{l} \text{(Main Terminal Voltage} \\ \text{(Main Terminal Voltage} = 12 \text{Vdc}, \ R_L = 100 \ \text{Ohms}) \\ \text{MT2(+)}, \ G(+) \\ \text{MT2(+)}, \ G(-) \\ \text{MT2(-)}, \ G(-) \\ \text{MT2(-)}, \ G(+) \\ \text{(Main Terminal Voltage} = \text{Rated V}_{DRM}, \ R_L = 10 \text{k}\Omega, \\ \text{T}_J = +125 ^{\circ}\text{C}) \\ \text{MT2(+)}, \ G(+); \ \text{MT2(+)}, \ G(-); \ \text{MT2(-)}, \ G(-) \\ \text{MT2(-)}, \ G(+) \end{array} $	V _{GT}	- - - - 0.2 0.2	0.9 0.9 1.1 1.4	2.0 2.0 2.0 2.5	V
Holding Current (Either Direction) (Main Terminal Voltage = 24Vdc, Gate Open I _T = 200mA)	I _H	-	_	50	mA
Critical Rate of Rise of Off–State Voltage (Rated V _{DRM} , Exponential Waveform, T _J = +125°C, Gate Open)	dv/dt	_	100	-	V/µs
Critical Rate of Rise of Commutation Voltage (Rated V_{DRM} , $I_{T(RMS)}$ = 6A, Commutating di/dt = 4.3A/ms, Gate Unenergized, T_{C} = +80°C)	dv/dt(c)	П	5	_	V/µs



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