

NTE5600 thru NTE5607 TRIAC, 4 Amp

Description:

The NTE5600 through NTE5607 TRIACs are designed primarily for full—wave AC control applications such as light dimmers, motor controls, heating 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 anode voltage with positive or negative gate triggering.

Features:

- 2 Mode Gate Triggering
- Blocking Voltages to 600V
- All Diffused and Glass Passivated Junctions for Greater Parameters Uniformity and Stability

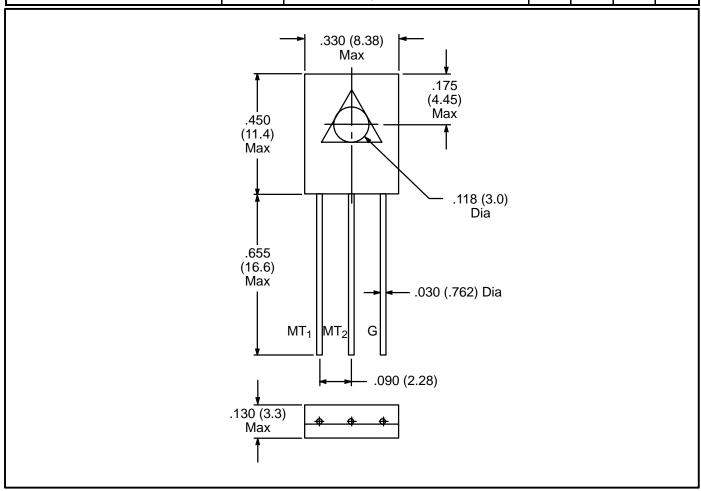
Absolute Maximum Ratings:

Absolute Maximum Itatings.	
Repetitive Peak Off–State Voltage (T _C = +110°C, Note 1), V _{DRM}	
NTE5600	
NTE5601)V
NTE5602)V
NTE5603)V
NTE5604)V
NTE5605	VC
NTE5606	VC
NTE5607)V
RMS On–State Current ($T_C = +85^{\circ}C$), $I_{T(RMS)}$	1A
Peak Surge Current (One Full Cycle, 60Hz , $T_J = -40^\circ$ to $+110^\circ\text{C}$), I_{TSM})A
Circuit Fusing (t = 8.3ms), I^2t	2 s
Peak Gate Power, P _{GM} 10	W
Average Gate Power, P _{G(AV)}	W
Peak Gate Voltage, V _{GM}	
Operating Junction Temperature Range, T _J	^o C
Storage Temperature Range, T _{stq} 40° to +150°	°C
Thermal Resistance, Junction–to–Case, R _{th.IC}	
Thermal Resistance, Junction–to–Ambient, R _{thJA}	
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Mounting Torque (6–32 Screw, Note 2)	ιD.

- 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. Torque rating applies with the use of a compression washer. Mounting torque in excess of 8 in. lb. does not appreciably lower case—to—sink thermal resistance. MT₂ and heatsink contact pad are common.

Electrical Characteristics: $(T_C = +25^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Peak Forward or Reverse Blocking Current	I _{DRM} , I _{RRM}	Rated V_{DRM} or V_{RRM} , Gate Open, $T_J = +25$ °C	_	_	10	μΑ
		Rated V_{DRM} or V_{RRM} , Gate Open, $T_J = +110^{\circ}C$	_	_	2	mA
On-State Voltage (Either Direction)	V_{TM}	I _{TM} = 6A Peak	_	_	2	V
Peak Gate Trigger Voltage MT ₂ (+), G (+); MT ₂ (-), G (-) MT ₂ (+), G (-); MT ₂ (-), G (+)	V _{GT}	Main Terminal Voltage = 12V, $R_L = 100\Omega$, $T_J = -40^{\circ}C$	_	1.4	2.5	V
Peak Gate Trigger Voltage MT ₂ (+), G (+); MT ₂ (-), G (-) MT ₂ (+), G (-); MT ₂ (-), G (+)	V _{GT}	Main Terminal Voltage = Rated V_{DRM} , $R_L = 10kΩ$, $T_J = +110$ °C	0.2	-	-	V
Holding Current (Either Direction)	lн	Main Terminal Voltage = 12V, Gate Open, $T_J = -40^{\circ}C$, Initiating Current = 1A	_	-	70	mA
		Main Terminal Voltage = 12V, Gate Open, $T_J = +25$ °C	_	_	30	mA
Turn-On Time (Either Direction)	t _{on}	I _{TM} = 14A, I _{GT} = 100mA	_	1.5	_	μs
Blocking Voltage Application Rate at Commutation	dv/dt	Rated V _{DRM} , Gate Open, T _J = +85°C	_	5	_	V/μs
Gate Trigger Current Quads I & III	I _{GT}	Main Terminal Voltage = 12V, $R_L = 100\Omega$, $T_J = +25^{\circ}C$	ı	ı	30	mA
		Main Terminal Voltage = 12V, $R_L = 100\Omega$, $T_J = -40^{\circ}C$	_	_	60	mA



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