NTE5608 thru NTE5610
TRIAC
8 Amp
TO−220 Type Package

Description:
The NTE5608 through NTE5610 series of TRIACs in a TO−220 type package are suitable for general purpose AC switching applications such as static relays, heating regulation, and induction motor starting circuits or for phase control operation in light dimmers and motor speed controllers.

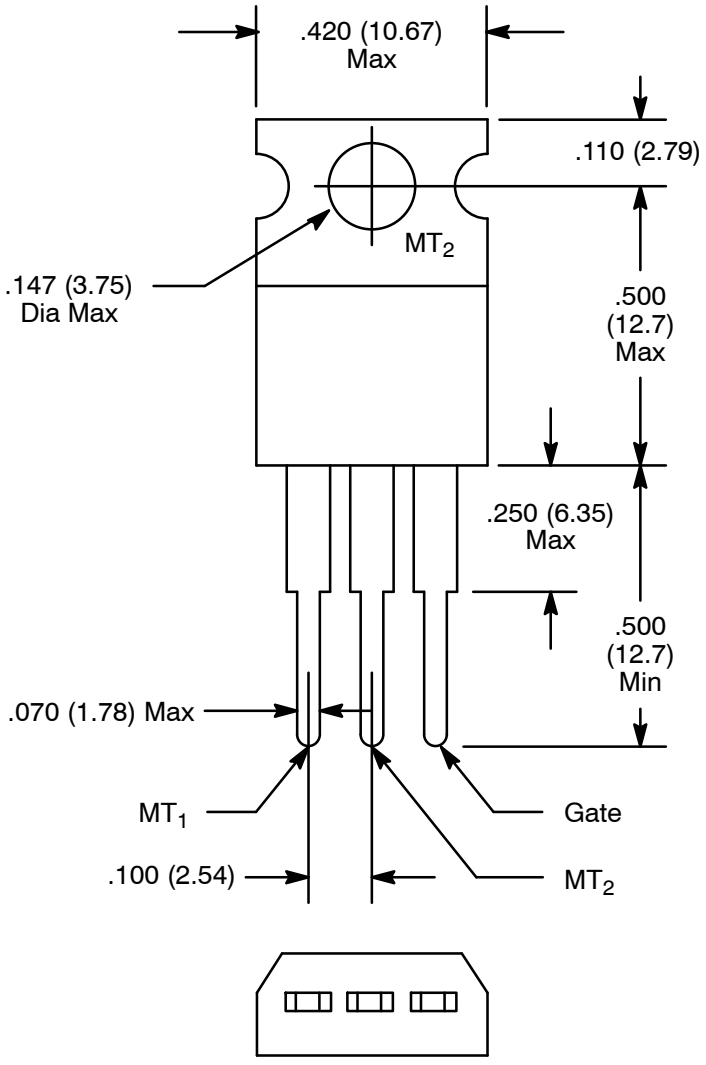
Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Repetitive Peak Off−State Voltage, V_{DRM}, V_{RRM}
- NTE5608 . . . . . 400V
- NTE5609 . . . . . 600V
- NTE5610 . . . . . 800V

On−State Current (Full Sin Wave, T_J = +110°C), $I_{T(RMS)}$ 8A
Non−Repetitive Peak On−State Current (t_p = 20ms), I_{TSM} 80A
Operating Junction Temperature Range, T_J . . . . . −40° to +125°C
Storage Temperature Range, T_{stg} . . . . . −40° to +125°C
Thermal Resistance, Junction−to−Case, R_{thJC} . . . . . 1.6°C/W
Thermal Resistance, Junction−to−Ambient, R_{thJA} . . . . . 60°C/W

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Repetitive Peak Reverse Current	I_{RRM}	$V_R = V_{RRM}$		–	–	0.005	mA
			T_J = +125°C	–	–	1	mA
Repetitive Peak Off−State Current	I_{DRM}	$V_R = V_{RRM}$		–	–	0.005	mA
			T_J = +125°C	–	–	1	mA
Gate Trigger Current I, II, III	I_{GT}	V_D = 12V, R_L = 33Ω		–	–	10	mA
IV				–	–	25	mA
Holding Current	I_H	I_{GT} = 0.5A, Gate Open		–	–	50	mA
Gate Trigger Voltage	V_{GT}	V_D = 12V, R_L = 33Ω, All Quadrants		–	–	1.3	V
On−State Voltage	V_{TM}	I_T = 11A, t_p = 380μs		–	–	1.55	V


.420 (10.67)
Max
.110 (2.79)
MT2
.147 (3.75)
Dia Max
.500
(12.7)
Max
.250 (6.35)
Max
.500
(12.7)
Min
.070 (1.78) Max
MT1
Gate
.100 (2.54)
MT2