ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089
http://www.nteinc.com

NTE5699
TRIAC – 800V_{RM}, 25A
TO220 Full Pack

Features:
- Off–State Voltages to 800 Volts
- Gate Triggering Guaranteed in Four Modes

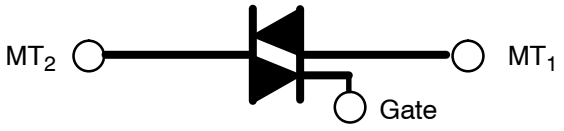
Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

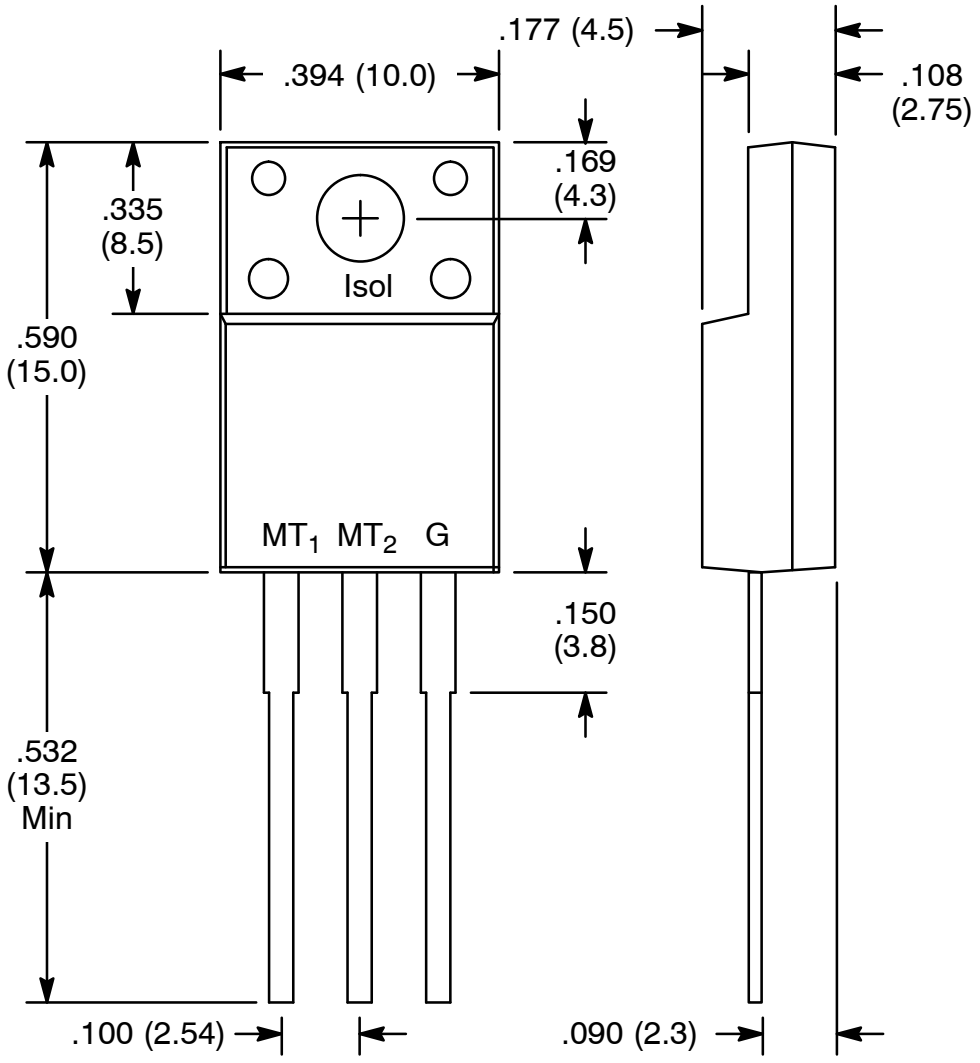
Repetitive Peak Off–State Voltage, V_{DRM} 800V
Repetitive Peak Reverse Voltage, V_{RRM} 800V
RMS On–State Current (Full Sine Wave, T_J = +80°C), $I_{T(RMS)}$ 25A
Non–Repetitive Peak On–State Current (t_p = 8.3ms), I_{TSM} 250A
Operating Junction Temperature Range, T_J . . . . . –40° to +125°C
Storage Temperature Range, T_{stg} . . . . . –40° to +150°C
Thermal Resistance, Junction–to–Case, R_{thJC} . . . . . 1.2°C/W

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Repetitive Peak Reverse Current	I_{RRM}	$V_R = V_{RRM}$	–	–	0.01	mA
		T_J = +125°C	–	–	2.0	mA
Repetitive Peak Off–State Current	I_{DRM}	$V_D = V_{RRM}$	–	–	0.01	mA
		T_J = +125°C	–	–	2.0	mA
Gate Trigger Current	I_{GT}					
I		V_D = 12V, R_L = 30Ω	–	–	50	mA
II			–	–	50	mA
III			–	–	50	mA
IV			–	–	75	mA
Holding Current	I_H	I_{GT} = 0.1A, Gate Open	–	–	50	mA
Gate Trigger Voltage, All Quadrants	V_{GT}	V_D = 12V, R_L = 30Ω	–	–	2	V
On–State Voltage	V_{TM}	I_T = 35A, t_p 2ms	–	–	1.85	V

Rev. 12–19


MT2
MT1
Gate


.177 (4.5)
.394 (10.0)
.108
(2.75)
.169
(4.3)
.335
(8.5)
Isol
.590
(15.0)
MT1 MT2 G
.150
(3.8)
.532
(13.5)
Min
.100 (2.54)
.090 (2.3)