



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

Features:

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

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ 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, $T_J = +80^\circ\text{C}$), $I_{T(RMS)}$	25A
Non-Repetitive Peak On-State Current ($t_p = 8.3\text{ms}$), I_{TSM}	250A
Operating Junction Temperature Range, T_J	-40° to $+125^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+150^\circ\text{C}$
Thermal Resistance, Junction-to-Case, R_{thJC}	1.2°C/W

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

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

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