



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 |

Rev. 12-19



