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## NTE5557 Silicon Controlled Rectifier (SCR) 820 Amp, TO200AB

**Applications:**

- DC Motor Control
- DC Power Supplies
- AC Controller

**Absolute Maximum Ratings:** ( $T_J = +125^\circ\text{C}$  unless otherwise specified)

Repetitive Peak Voltages, $V_{DRM}$ , $V_{RRM}$ .....	1600V
Average On-State Current ( $T_C = +55^\circ\text{C}$ , 180°, Half Sine Wave, 50Hz), $I_{T(AV)}$ .....	735A
RMS On-State Current ( $T_{hs} = +55^\circ\text{C}$ , Double Side Cooled), $I_{T(RMS)}$ .....	820A
Continuous On-State Current ( $T_{hs} = +25^\circ\text{C}$ , Double Side Cooled), $I_T$ .....	1230A
Peak One-Cycle Surge (10ms duration, Half Sine Wave, 50Hz), $I_{TSM}$ .....	6200A
Peak On-State Voltage ( $I_{TM} = 1500\text{A}$ , $T_J = +25^\circ\text{C}$ ), $V_{TM}$ .....	2.0V
Repetitive Peak Off-State Current (At $V_{DRM}$ ), $I_{DRM}$ .....	40mA
Repetitive Peak Reverse Current (At $V_{RRM}$ ), $I_{RRM}$ .....	40mA
Maximum Gate Current ( $V_A = 12\text{V}$ , $I_A = 1\text{A}$ , $T_J = +25^\circ\text{C}$ ), $I_{GT}$ .....	200mA
Maximum Gate Voltage ( $V_A = 12\text{V}$ , $I_A = 1\text{A}$ , $T_J = +25^\circ\text{C}$ ), $V_{GT}$ .....	3V
Rate of Rise of Off-State Voltage ( $V_{DRM} = 1072\text{V}$ ), $dv/dt$ .....	500V/ $\mu\text{s}$
Operating Junction Temperature, $T_J$ .....	+125°C
Storage Temperature Range, $T_{stg}$ .....	-40° to +125°C
Thermal Resistance, Junction-to-Case, $R_{thJC}$ .....	0.05°C/W

