

NTE1751 Integrated Circuit TV SCR Driver

Features:

- SCR Driver for TV Switching Mode Power Supply
- High Stable Inner Reference Diode
- High Output Current Capability
- Simple Configuration of Power Supply

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage (V_6), V_{CC}	30V
Output Current, I_7	250A
Input Voltage (1), V_1	$2 \sim \bar{V}_z + \bar{V}_f$
Power Dissipation, P_d	625mW
Derate Above 25°C	5mW/ $^\circ\text{C}$
Operating Temperature Range, T_{opr}	-20° to $+65^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ\text{C}$

Electrical Characteristics: ($V_6 = 24\text{V}$, $T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_O	SW1: 3, SW2: 1, SW3: 2	1.5	2.9	2.0	mA
Q5 ON Voltage	Δ_1 (on)	SW1: 1, SW2: 1, SW3: 2	6.0	7.0	6.5	V
Q4 ON Voltage	Δ_5 (on)	SW1: 2, SW2: 1, SW3: 2	6.4	8.0	7.2	V
Q1 ON Voltage	Δ_7 Leak	SW1: 2, SW2: 1, SW3: 1	20.3	22.3	21.3	V
Q1 OFF Current	I_7 Leak	SW1: 3, SW2: 1, SW3: 3	–	3	–	μA
Q5 ON Current	I_1 (on)	SW1: 2, SW2: 2, SW3: 2	–	30	–	μA
Q4 ON Current	I_5 (on)	SW1: 2, SW2: 1, SW3: 1	–	50	–	μA
#3 Voltage	Δ_3	SW1: 3, SW2: 2, SW3: 2	28.5	23.6	23.3	V
		SW1: 2, SW2: 2, SW3: 2	4.5	6.0	5.3	V

Pin Connection Diagram
(Front View)

