

## 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 $25^\circ\text{C}$ .....	5mW/ $^\circ\text{C}$
Operating Temperature Range, $T_{opr}$ .....	$-20^\circ$ to $+65^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-55^\circ$ 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	$\Delta_1$ (on)	SW1: 1, SW2: 1, SW3: 2	6.0	7.0	6.5	V
Q4 ON Voltage	$\Delta_5$ (on)	SW1: 2, SW2: 1, SW3: 2	6.4	8.0	7.2	V
Q1 ON Voltage	$\Delta_7$ 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	–	$\mu\text{A}$
Q5 ON Current	$I_1$ (on)	SW1: 2, SW2: 2, SW3: 2	–	30	–	$\mu\text{A}$
Q4 ON Current	$I_5$ (on)	SW1: 2, SW2: 1, SW3: 1	–	50	–	$\mu\text{A}$
#3 Voltage	$\Delta_3$	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)

