

## NTE1797 Integrated Circuit Color TV Vertical Output Circuit

**Description:**

The NTE1797 is a monolithic linear IC designed for large-aperture color TV vertical deflection output and has such features as greatly reduced number of external parts and low power dissipation. The NTE1797 can be used in conjunction with the NTE1845 for video chroma deflection use and the NTE1538 for deflection use.

**Features:**

- High Output
- On-Chip Pump-Up Circuit and Low Power Dissipation
- Minimum Number of External Parts Required

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

Maximum Supply Voltage, $V_{8\text{max}}$ .....	30V
Maximum Supply Voltage, $V_{5\text{max}}$ .....	60V
Deflection Output Current, $I_{4\text{max}}$ .....	$\pm 1.8A_{P-O}$
Allowable Power Dissipation, $P_{D\text{max}}$ .....	8W
Operating Temperature Range, $T_{\text{opg}}$ .....	$-20^\circ$ to $+85^\circ\text{C}$
Storage Temperature Range, $T_{\text{stg}}$ .....	$-40^\circ$ to $+150^\circ\text{C}$

**Recommended Operating Conditions:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Recommended Supply Voltage, $V_8$ .....	24V
Operating Voltage Range .....	18V to 27V
Deflection Output Current, $I_{4P-P}$ .....	Up to $1.8A_{P-P}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Transistor Saturation Voltage	$V_{OS1}$		–	0.5	1.0	V
	$V_{OS2}$		–	1.8	2.6	V
Pin7 Saturation Voltage	$V_{7S1}$		–	–	1.5	V
	$V_{7S2}$		–	0.8	1.6	V
Quiescent Current	$I_{CCO}$		8.0	11.5	24.0	mA
Output Middle Point Voltage	$V_N$		–	11	–	V

**Pin Connection Diagram**  
(Front View)

