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: \((T_A = +25^\circ C \text{ unless otherwise specified})\)
- Maximum Supply Voltage, \(V_{8\max}\) \(\ldots\) \(30V\)
- Maximum Supply Voltage, \(V_{5\max}\) \(\ldots\) \(60V\)
- Deflection Output Current, \(I_{4\max}\) \(\ldots\) \(\pm1.8A_{P-O}\)
- Allowable Power Dissipation, \(P_{D\max}\) \(\ldots\) \(8W\)
- Operating Temperature Range, \(T_{opg}\) \(\ldots\) \(-20^\circ C \text{ to } +85^\circ C\)
- Storage Temperature Range, \(T_{stg}\) \(\ldots\) \(-40^\circ C \text{ to } +150^\circ C\)

Recommended Operating Conditions: \((T_A = +25^\circ C \text{ unless otherwise specified})\)
- Recommended Supply Voltage, \(V_8\) \(\ldots\) \(24V\)
- Operating Voltage Range \(\ldots\) \(18V \text{ to } 27V\)
- Deflection Output Current, \(I_{4P-P}\) \(\ldots\) \(\text{Up to } 1.8A_{P-P}\)
**Electrical Characteristics**: 

\( T_A = +25^\circ C \) unless otherwise specified.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Test Conditions</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Transistor Saturation Voltage</td>
<td>( V_{OS1} )</td>
<td>–</td>
<td>0.5</td>
<td>1.0</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td></td>
<td>( V_{OS2} )</td>
<td>–</td>
<td>1.8</td>
<td>2.6</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Pin7 Saturation Voltage</td>
<td>( V_{7S1} )</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>1.5</td>
<td>V</td>
</tr>
<tr>
<td></td>
<td>( V_{7S2} )</td>
<td>–</td>
<td>0.8</td>
<td>1.6</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Quiescent Current</td>
<td>( I_{CCO} )</td>
<td></td>
<td>8.0</td>
<td>11.5</td>
<td>24.0</td>
<td>mA</td>
</tr>
<tr>
<td>Output Middle Point Voltage</td>
<td>( V_N )</td>
<td>–</td>
<td>11</td>
<td>–</td>
<td>–</td>
<td>V</td>
</tr>
</tbody>
</table>

**Pin Connection Diagram**

(Front View)

1. N.C.
2. N.C.
3. GND
4. Vert Output
5. Vert Output \( V_{CC} \)
6. Input
7. OSC Stop
8. \( V_{CC} \)
9. Pump–Up Output
10. N.C.

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Dimensions:

- 1.062 (27.0)
- 0.788 (20.0)
- 0.156 (3.95) R
- 0.157 (4.0)
- 0.448 (11.4)
- 0.740 (18.78)
- 0.100 (2.54)
- 0.016 (0.40)