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NTE2032 Integrated Circuit BCD-to-Seven-Segment Decoder Driver

Description:

The NTE2032 is a monolithic integrated circuit in a 16-Lead DIP type package that performs the BCD-to-seven-segment decoding function and features constant-current segment drivers. When used with the NTE2054 A/D converter, the NTE2032 provides a complete digital readout system with a minimum number of external parts.

Features:

- TTL Compatible Input Logic Levels
- 25mA (Typ) Constant Current Segment Outputs
- Eliminates Need for Output Current Limiting Resistors
- Pin Compatible with Other Industry Standard Decoders
- Low Standby Power Dissipation: 18mW Typ

Absolute Maximum Ratings:

DC Supply Voltage (Between Pin1 and Pin10), V+	7V
Input Voltage (Pin1, Pin2, Pin6, and Pin7), V _{IN}	5.5V
Output Voltage, V _O	
Output "OFF"	7V
Output "ON" (Note 1)	10V
Device Dissipation (T _A ≤ +55°C), P _D	1W
Derate Above 55°C	10.5mW/°C
Operating Ambient Temperature Range, T _{opr}	0° to +75°C
Storage Temperature Range, T _{stg}	-65° to +150°C
Lead Temperature (During Soldering, 1.16" ±1/32" (1.59mm ±0.79mm), 10sec max), T _L	.. +265°C

Note 1. This is the maximum output voltage for any single output. The output voltage must be consistent with the maximum dissipation and worst case conditions. Example: All segments "ON", 100% duty cycle.

Pin Connection Diagram

