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NTE7082 Integrated Circuit Stepper Motor Driver

Description:

The NTE7082 is a bipolar integrated circuit in a 16-Lead DIP type package intended for driving a four-phase two-state motor. The circuit consists of a bidirectional four-state counter and a code converter to drive the four outputs in the sequence required for driving a stepping motor.

Features:

- High Noise Immunity Inputs
- Clockwise and Counter-Clockwise Operation
- Reset Facility
- High Output Current
- Outputs Protected Against Damage by Overshoot

Applications:

- Automotive Industry
- Industrial
- Office Equipment
- EDP

Absolute Maximum Ratings:

DC Supply Voltage, V_{CC1} , V_{CC2} 18V
 Input Voltage (All Inputs), V_I 18V
 Current into Pin4, I_{RX} 120mA
 Output Current, I_{OL} 500mA
 Operating Ambient Temperature Range, T_A -20° to +70°C
 Storage Temperature Range, T_{stg} -65° to +150°C

DC Electrical Characteristics: ($V_{CC} = 9.5V$ to $18V$, $V_{EE} = 0V$, $T_A = -20°$ to $+70°C$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Voltage Range	V_{CC}		8.5	–	18.0	V
Supply Current	I_{CC}	$V_{CC1} = 12V$, unloaded, all outputs HIGH, Pin4 Open	2.0	4.5	6.5	mA

