

NTE7042 Integrated Circuit Bi-Directional Motor Driver

Description:

The NTE7042 is a Bi–Directional Motor Drive in a 9–Lead SIP type package and generates an output current of 700mA (Max) with 4 output modes of forward rotation, reverse rotation, stop (idling), and brake according to input logic (2 inputs). The GNDs of the logic unit and power unit are isolated. Therefore, the circuit of a reversible, variable–speed motor can be easily composed by adding an electronic governor at the output.

Features:

- Built-in Surge Absorbing Diode
- Low Standby Current
- Wide Operating Voltage Range: 4.5V to 15V
- TTL Compatible
- Built-in Thermal Shutdown Circuit

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

Supplu Voltage, V _{CC}	. 18V
Output Current, I _O	00mA
Power Dissipation, P _D 80	
Derate Above 25°C 8m	าW/°C
Operating Temperature Range, T _{opr} –20° to -1	
Storage Temperature Range, T _{stq} –55° to +1	125°C

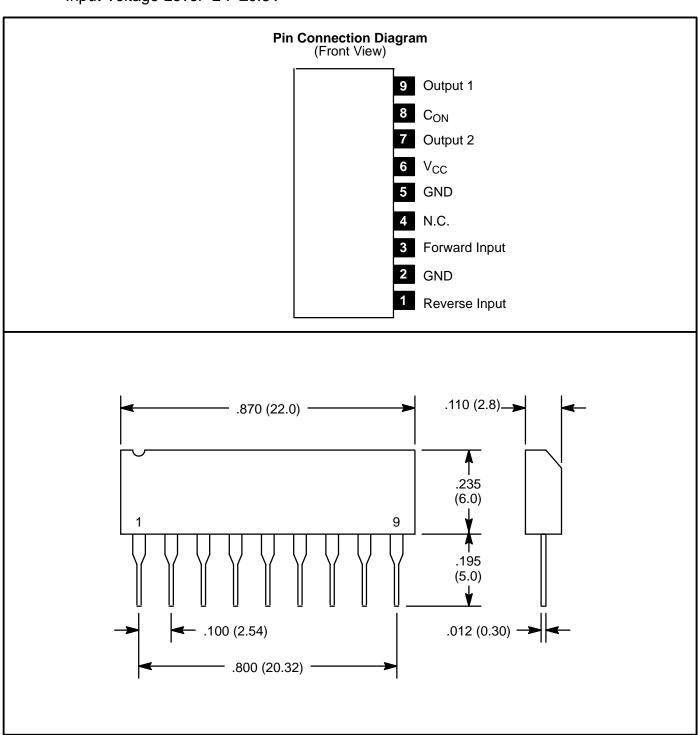
Electrical Characteristics: (V_{CC} = 9V, T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Supply Voltage	V _{CC1}	V _{CC} (Pin6) ~ GND (Pin2, Pin5)	4.5	_	15	V
	V _{CC2}	V _{CC} (Pin6) ~ C _{OM} (Pin8)	4.0	_	15	V
Supply Current	I _{CC1}	Pin1 "H", Pin3 "L" or Pin1 "L", Pin3 "H", $R_L = \infty$	18	34	50	mA
	I _{CC2}	Pin1 "H", Pin3 "L", R _L = ∞	34	52	70	mΑ
Standby Current	I _{standby}	Pin1 "L", Pin3 "L"	_	_	1.5	mA
High Level Input Voltage	V _{IH}		2.0	_	_	V
Low Level Input Voltage	V_{IL}		_	_	0.8	V
High Level Input Current	I _{IH}	$V_{IN} = 2V$	_	93	135	μΑ
Collector–Emitter Voltage	V_{CE}	I _O = 200mA	_	1.2	1.6	V

Truth Table:

	Input (Pin3)	Input (Pin1)	Output (Pin7)	Output (Pin9)
IC not Operating	L	L	Open	Open
Motor Forward	Н	L	Н	L
Motor Reverse	L	Н	L	Н
Brake	Н	Н	L	L

Note 1. Input Voltage Level "H": ±2.0V Input Voltage Level "L": ±0.8V



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