

NTE7087 Integrated Circuit Bi-Directional Motor Driver

Description:

The NTE7087 is a bi-directional motor driver IC in a 10-Lead SIP type package capable of direct driving 6V, 9V, and 12V motors. This device has a 2-input logic circuit and performs the functions of bi-directional driving and braking. The output voltage can be varied by using an external zener diode.

Features:

- 2-Input Logic can be used to Excercise Control of Bi-Directional Driving and Braking
- On-Chip Elements to Absorb the Dash Current of the Motor
- Input Interfaceable with MOS LSI
- Output Voltage Variable by using an External Zener Diode

Absolute Maximum Ratings: $(T_A = +25^{\circ}C)$ unless otherwise specified)	
Maximum Supply Voltage, V _{CC} max	18V
Input Voltage, V _{IN}	0.3V to V _{CC}
Output Current, I _{OUT}	±1.6A
Allowable Power Dissipation, P _D max	1.2W
Operating Temperature Range, Topr	–25° to +75°C
Storage Temperature Range, T _{stg}	. –55° to +125°C

Recommended Operating Conditions: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Supply Voltage	V _{CC1}		7	_	18	V
	V _{CC2}		5	-	18	V

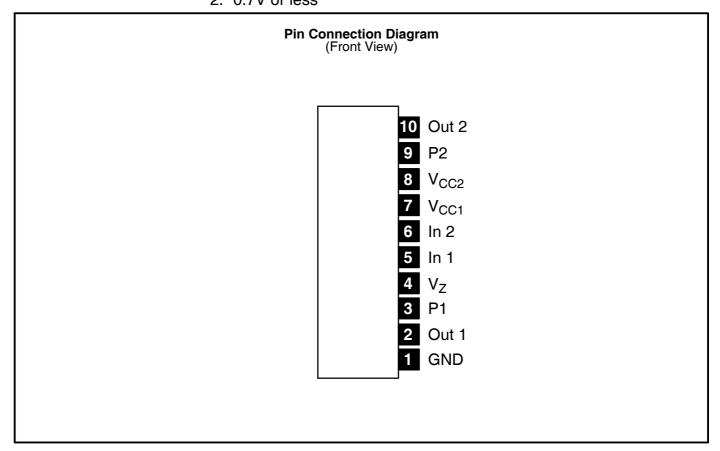
<u>Electrical Characteristics:</u> $(T_A = +25^{\circ}C, V_{CC} = 12V \text{ unless otherwise specified})$

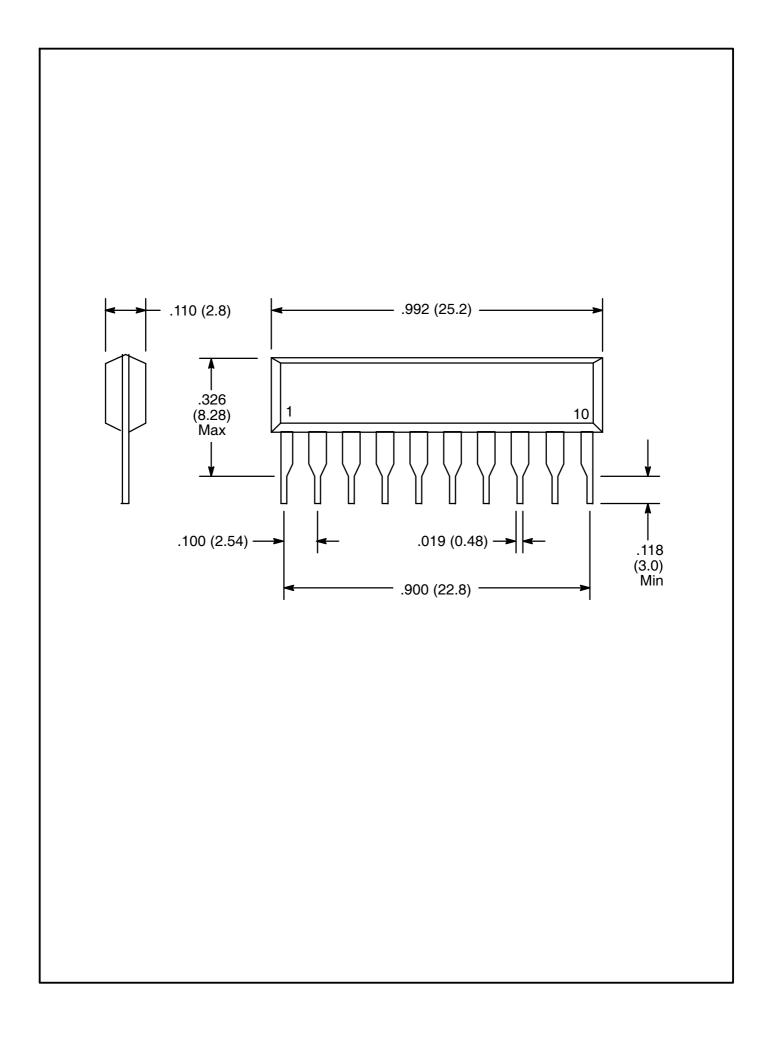
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Input Threshold Voltage	V_{th}	R _L = ∞	1.1	1.3	1.5	V
Minimum Input ON-State Current	I _{IN}	R _L = ∞	-	10	15	μΑ
Output Voltage	Vo	O $R_L = 60\Omega, V_Z = 7.4V$		7.2	7.4	V
Output Leakage Current	I _{OL}	Pin5, Pin6 GND, R _L = ∞	-	0.01	1.0	mA
Current Dissipation	I _{CC}	Pin5, Pin6 GND, R _L = ∞	3	6	10	mA
Saturation Voltage (Upper)	V _{sat1}	V _{CC} = 12V, I _{OUT} = 300mA	_	1.9	2.2	V
		V _{CC} = 12V, I _{OUT} = 500mA	-	1.9	2.3	V
Saturation Voltage (Lower)	V _{sat2}	V _{CC} = 12V, I _{OUT} = 300mA	-	0.25	0.5	V
		V _{CC} = 12V, I _{OUT} = 500mA	-	0.4	0.65	V

Truth Table:

Inj	Input		put	Operation
IN1	IN2	OUT1	OUT2	
0	0	0	0	Braking
1	0	1	0	Forward (Reverse) Drive
0	1	0	1	Reverse (Forward) Drive
1	1	0	0	Braking

Input Level 1: 2.0V or greater 2: 0.7V or less





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