

NTE1766 Integrated Circuit Reversible Motor Driver

Description:

The NTE1766 is a reversible motor driver in a 10-Lead SIP type package capable for directly driving a motor containing a brush, requiring reversible rotation.

Features:

- High Output Current: $I_{Omax} = 2.2A$
- Built-In Thermal Shutdown Circuit
- Output Voltage Setting Terminal
- Low Circuit Current in Standby Mode

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

Supply Voltage, V_{CC1}, V_{CC2}	24V
Output Current, I_O	2.2A
Input Voltage, V_{IN}	-0.3V to V_{CC1} V
Power Dissipation ($T_A = +25^\circ C$), P_D	2200mW
Derate Above 25°	22mW/ $^\circ C$
Operating Temperature Range, T_{opr}	-20° to $+75^\circ C$
Storage Temperature Range, T_{stg}	-50° to $+125^\circ C$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Voltage	V_{CC1}, V_{CC2}		8	—	18	V
Supply Current	I_{CC1}	Pin5, Pin6, "L"	—	1.2	2.5	mA
	I_{CC2}	Pin5, Pin6	—	16	35	mA
	I_{CC3}	Pin5, Pin6, "H"	—	25	60	mA
Threshold Voltage, Pin5, Pin6	V_{TH5}, V_{TH6}	"L" Level $\leq 1V$, "H" Level $\geq 3V$	1.0	2.0	3.0	V
Voltage Level, Pin2	V_{H2}	$R_L = 60\Omega$, $ZD = 6.8V$	6.5	—	—	V
	V_{L2}	$R_L = 60\Omega$	—	—	1.2	V
Voltage Level, Pin10	V_{H10}	$R_L = 60\Omega$, $ZD = 6.8V$	6.5	—	—	V
	V_{L10}	$R_L = 60\Omega$	—	—	1.2	V

Input/Output Truth Table:

Input		Output	
Pin5	Pin6	Pin2	Pin10
L	L	OPEN	OPEN
H	L	H	L
L	H	L	H
H	H	L	L

Note 1. Input Level "H": 3.0V
Input Level "L": 1.0V

Pin Connection Diagram
(Front View)

