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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: $I_O$max = 2.2A
- Built–In Thermal Shutdown Circuit
- Output Voltage Setting Terminal
- Low Circuit Current in Standby Mode

Absolute Maximum Ratings: (T_A = +25°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°C), P_D 2200mW
Derate Above 25° . . . . . 22mW/°C
Operating Temperature Range, T_{opr} . . . . . –20° to +75°C
Storage Temperature Range, T_{stg} . . . . . –50° to +125°C

Electrical Characteristics: (T_A = +25°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 ≤ 1V, “H” Level ≥ 3V	1.0	2.0	3.0	V
Voltage Level, Pin2	V_{H2}	R_L = 60Ω, ZD = 6.8V	6.5	–	–	V
	V_{L2}	R_L = 60Ω	–	–	1.2	V
Voltage Level, Pin10	V_{H10}	R_L = 60Ω, ZD = 6.8V	6.5	–	–	V
	V_{L10}	R_L = 60Ω	–	–	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)