ELECTRONICS, INC.
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NTE1825
Integrated Circuit
Dual, DC Motor Driver

Features:
- Linear Output Proportional to Input Voltage
- Brake Function Available at Input Open Mode
- Brake Function Available at the Time of Simultaneous Application of Input of Forward/Reverse Rotation
- Brake Function Available at Forward Rotation Mode
- Wide Operating Supply Voltage Range: 3V to 24V
- High Current Gain
- Excellent Stability of Output Voltage in Intermediate Region
- Low Current Dissipation at Braking Mode

Applications:
- Forward/Reverse Rotation of DC Motors (VCR's, VD's, Printers)
- Forward Rotation (With Brake Function) of DC Motors

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Supply Voltage (Quiescent), V_{CC} 25V
Input Applied Voltage, V_{in} 25V
Output Current, I_C 2A
Power Dissipation (T_C = +25°C, Note 1), P_D 7.5W
Operating Case Temperature, T_C . . . . . +100°C
JunctionnTemperature, T_J . . . . . +150°C
Storage Temperature Range, T_{stg} . . . . . –40° to +125°C

Note 1. P_D: Value for each of TR3, TR6, TR9, and TR13.

Electrical Characteristics: (T_A = +25°C, V_{CC} = 12V, R_L = 10Ω/Ch unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	V_{in} = Open	18	23	30	mA
Input Current	I_{i-1}	I_O = 500mA	–	170	350	µA
	I_{i-2}	I_O = 900mA, V_{in} = 12V	–	0.34	0.7	mA
Input Voltage	V_i	I_{OUT} = 500mA	–	6.45	7.20	V
Output Saturation Voltage	V_{st-1}	I_{in} = 1mA, V_{in} = 12V	–	1.37	2.00	V
	V_{st-2}	I_{in} = 1mA, V_{in} = 12V	–	0.4	1.0	V
Diode Forward Voltage	V_{df}	I_f = 1A	–	1.2	1.8	V

Pin Connection Diagram
(Front View)