NTE1736
Integrated Circuit
Module, 4–Phase Stepping Motor Driver

Features:

- Chopper Operation Capable of Providing Good Rising Characteristic of Motor Current and Low Heat Dissipation due to Constant Current.
- PAUSE Pin can be used to control Pause Action
- Unipolar Drive make it Possible to Drive Hybrid, PM, or VR Type Stepping Motor

Applications:

- Paper Feed Motor Driver and Carriage Motor Driver for Various Types of Printers such as Serial Printer, Line Printer, Etc.
- Pen Driver for X–Y Plotter
- Industrial Robot

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

Maximum Supply Voltage (Quiescent). V_{CC}max 30V
Phase Drive Voltage, V_{CE} 60V
Phase Current (Each Phase), I_O 2.5A
Phase Input Voltage (R_G = 1kΩ, 1 sec), V_{IN} 30V
Power Dissipation, P_D
      No Fin (IMST Substrate) 6.9W
      Each Transistor in Each Phase (T_C = 25°C) 8.5W
Junction Temperature, T_J . . . . +150°C
Storage Temperature Range. T_{stg} . . . . −40° to +125°C
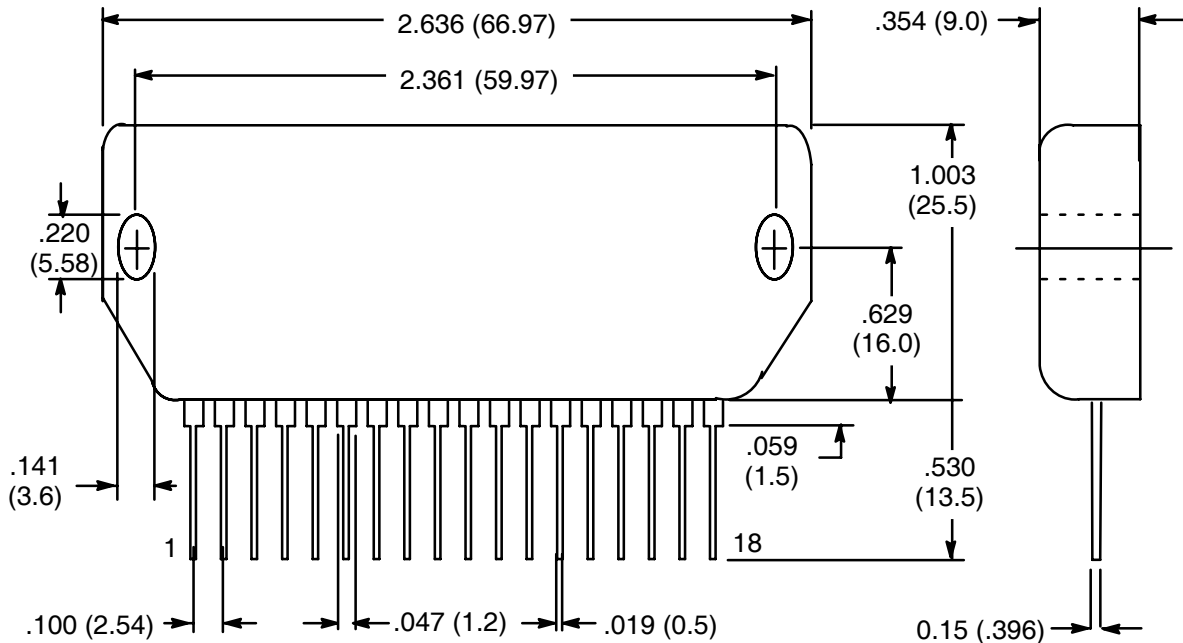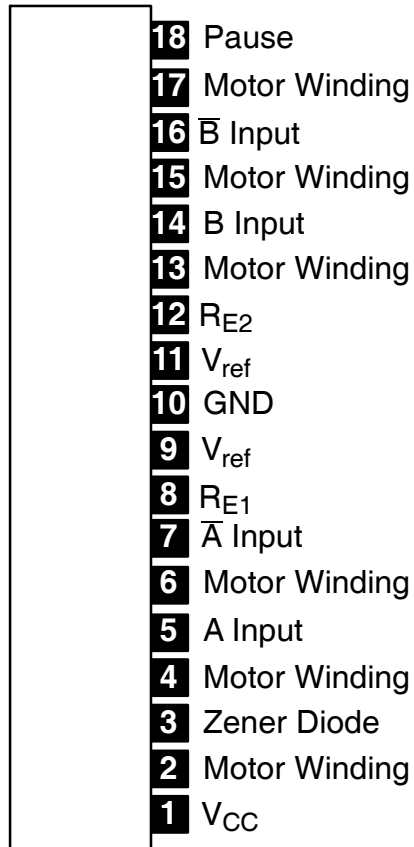
Operating Characteristics: (V_{CC} = 24V, T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Saturation Voltage I	$V_{st}(1)$	Across Pin1 & Pin2, Across Pin1 & Pin17, R_L = 13Ω, R_E = 0Ω, R_O = 4.7kΩ, V_{IN} = 5V, R_g = 3.3kΩ	–	1.2	16	V
Output Saturation Voltage II	$V_{st}(2)$	Across Pin4, Pin6, & Pin8, Across Pin14, Pin16, & Pin12, R_L = 13Ω, R_E = 0Ω, R_O = 4.7kΩ, V_{IN} = 5V, R_g = 3.3kΩ	2.15	2.6	–	V
Output Current	I_{OH}	Each Phase, I_{IN} = 1mA, R_g = 3.3kΩ, R_L = 13Ω	1.4	1.5	–	A
Stop Voltage	V_{stop}	I_O = 0.5A	1	–	5	V
Diode Forward Voltage I	$V_{df}(1)$	I_F = 0.3A	–	1.5	1.8	V
Diode Forward Voltage II	$V_{df}(2)$	I_F = 0.5A	–	1.2	1.8	V
Stop Current	I_{CCO}	R_L = 13Ω, R_O = 4.7kΩ, R_E = 0Ω	–	8	13	mA
Voltage I on Pin9 or Pin11	V_H	Quiescent, R_O = 4.7kΩ, R_E = 0Ω	0.35	0.50	0.70	V
Voltage II on Pin9 or Pin11	V_L	Quiescent, R_O = 4.7kΩ, R_E = 0Ω	–	0.08	0.30	V

Note 1. For power supply, use a constant voltage power supply.

Note 2. When 100Hz square wave is applied to each phase input at the time of V_{st} measurement, no high frequency parastic oscillation shall occur in output wave.

Pin Connection Diagram
(Front View)

18	Pause
17	Motor Winding
16	$\overline{B}$ Input
15	Motor Winding
14	B Input
13	Motor Winding
12	R_{E2}
11	V_{ref}
10	GND
9	V_{ref}
8	R_{E1}
7	$\overline{A}$ Input
6	Motor Winding
5	A Input
4	Motor Winding
3	Zener Diode
2	Motor Winding
1	V_{CC}

2.636 (66.97)

2.361 (59.97)

.354 (9.0)

1.003 (25.5)

.220 (5.58)

.629 (16.0)

.141 (3.6)

.059 (1.5)

.530 (13.5)

1

18

.100 (2.54)

.047 (1.2)

.019 (0.5)

0.15 (.396)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Motor/Motion/Ignition Controllers & Drivers *category:*

Click to view products by NTE *manufacturer:*

Other Similar products are found below :

LV8133JA-ZH LV8169MUTBG LV8774Q-AH LV8860PV-TLM-H MC33931EKR2 MC34GD3000EP FSB50250UTD FSB50550TB2 FSBF15CH60BTH MP6507GR-P MP6508GF MSVCPM2-63-12 MSVGW45-14-2 MSVGW54-14-5 NTE7043 CAT3211MUTAG LA6245P-CL-TLM-E LA6245P-TLM-E LA6565VR-TLM-E LB11650-E LB1694N-E LB1837M-TLM-E LB1845DAZ-XE LC898111AXB-MH LC898300XA-MH SS30-TE-L-E STK531-345A-E STK581U3A0D-E STK58AUNP0D-E STK621-068C-E STK621-140C STK621-728S-E STK625-728-E STK672-400B-E STK672-432AN-E STK672-432BN-E STK672-440AN-E STK672-442AN-E AMIS30621AUA FSB50550ASE 26700 LV8161MUTAG LV8281VR-TLM-H LV8702V-TLM-H LV8734VZ-TLM-H LV8773Z-E LV8807QA-MH MC33932EK MCP8024T-H/MP TND027MP-AZ