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NTE1759
Integrated Circuit
PMOS, 26 Command TV Remote Control Reciever

Description:

The NTE1759 is a PMOS integrated circuit in a 16–Lead DIP type package designed for use in decoding the signal received from a transmitter in TV remote control applications. Direct channel selection can be obtained by combining the NTE1759 receiver with the NTE1758 transmitter control IC. When using the NTE1520 as the channel selection IC, a complete remote control system can be obtained.

Features:

- Capable of Receiving 26 Commands:
  Channel 1–20 Channel UP/DOWN
  Volume UP/DOWN Mute ON/OFF
  Power ON/OFF
- Capable of Controlling 5 Commands Directly:
  Channel UP/DOWN
  Volume UP/DOWN
  Power ON/OFF
- By Combining with the NTE1520, Direct Addressing is Easily Realized
- Capable of Controlling the Volume for 31 Steps

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

Supply Voltage, $V_{DD} - V_{SS}$ . . . . . –15 to +0.3V
Input Voltage, $V_{IN} - V_{SS}$ . . . . . $-V_{DD}$ to +0.3V
Output Current I_{OH}
  CHU, CHD, INI . . . . . –5.0mA
  VOL, POW . . . . . –10.0mA
Power Dissipation, P_D 360mW
Operating Temperature Range, T_{opr} . . . . . –20° to +75°C
Storage Temperature Range, T_{stg} . . . . . –40° to +125°C

Electrical Characteristics: (T_A = –20° to +75°C, V_{DD} = –9.6 to +14.4V unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Voltage	V_{DD}		–9.6	–12.0	–14.4	V
Supply Current	I_{DD}	T_A = +25°C, OSCI = V_{SS}, V_{DD} = –12V	–4.0	–10.0	–20.0	mA
Input High Voltage	V_{IH}(1 ~ 5, 13)		0	–	–1.5	V
Input Low Voltage	V_{IL}(1 ~ 5, 13)		–5.0	–	V_{DD}	V
Input Pulldown Current	I_{IL}(1 ~ 5, 13)	T_A = +25°C, V_{IN} = V_{SS}, V_{DD} = –12V	5.0	–	50	µA

Electrical Characteristics (Cont'd): (T_A = –20° to +75°C, V_{DD} = –9.6 to +14.4V unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output High Voltage	V_{OH}(CHU)	I_{OH} = –1.0mA	–	–	–2.5	V
Output High Voltage	V_{OH}(CHD)	I_{OH} = –1.0mA	–	–	–2.5	V
Output High Voltage	V_{OH}(INI)	I_{OH} = –1.0mA	–	–	–2.5	V
Output High Voltage	V_{OH}(VOL)	I_{OH} = –5.0mA	–	–	–2.5	V
Output High Voltage	V_{OH}(POW)	I_{OH} = –5.0mA	–	–	–2.5	V
Output Low Current	I_{OL}(1 ~ 5, 13)	T_A = +25°C, V_{OL} = –11.5V, V_{DD} = –12V	0	–	100	µA

Pin Connection Diagram



