

NTE7100 Integrated Circuit Protector IC for Stereo Power Amplifier

Description:

The NTE7100 is a monolithic integrated circuit in an 8-Lead SIP type package designed for protecting stereo power amplifiers and loudspeakers.

Features:

- Work Stably Within a Wide Power Supply Range: $V_{CC} = 25V$ to $60V$
- Contains a Relay Driver: $I_6 = 80mA$ max
- Pin3 can be used for Either a Latching Function or Automatic Resetting Function (In Both Overload Detection and Output Offset Detection, Either Function can be Selected)
- Single Power Supply
- Both Positive and Negative Output Offset can be Detected Through the Same Pin (Output Offset Detection Through Pin2)
- AC Voltage can be Detected (For AC-Power-OFF Mute Through Pin4)
- The Time Delay from Amplifier Power ON to Relay ON can be Freely Set by Selecting External Components. (For AC-Power-ON Mute Through Pin7)

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

Power Supply Voltage, V_{CC} 60V

Allowable Power Dissipation ($T_A = +75^\circ C$), P_D 320mW

Maximum Voltage At:

Pin4, V_{4max} 10V

Pin8, V_{8max} 8V

Pin7, V_{7max} 8V

Maximum Current At:

Pin6, I_{6max} 80mA

Pin1, I_{1max} 3mA

Pin2, I_{2max} $\pm 3mA$

Operating Temperature Range, T_{opr} -20° to $+75^\circ C$

Storage Temperature Range, T_{stg} -40° to $+125^\circ C$

Recommended Operating Conditions:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Voltage	V_{CC}		25	45	60	V

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NTE:

NTE7100