OKI Semiconductor

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MSC1157

Speaker Drive Amplifier

GENERAL DESCRIPTION

The MSC1157, designed specifically to operate at a low voltage with low current consumption, is a power amplifier developed for driving a speaker for a voice IC.
The voltage gains can be adjusted over a range of up to ten. The differential output can directly drive a speaker without any output coupling capacitors. The MSC 1157, because of its ability to stand by, is ideally suitable for portable equipment applications powered by a battery.

FEATURES

- Low voltage operation : 2.0 to 6.0 V (Single power supply)
- Low current dissipation
  Operating current : 1.6mA without load (typ.)
- Standby function : Current dissipation less than 1 μA in standby
- High output current : 350mA peak
- Differential outputs : A speaker can be directly connected between differential outputs.
- Adjustable gain : Gain can be adjusted by use of an external resistor.
- Package options:
  8-pin plastic DIP (DIP8-P-300-2.54) (Product name : MSC1157RS)
  8-pin plastic SOP (SOP8-P-250-1.27-K) (Product name : MSC1157MS-K)
  Chip

BLOCK DIAGRAM