

LM3065 television sound system

general description

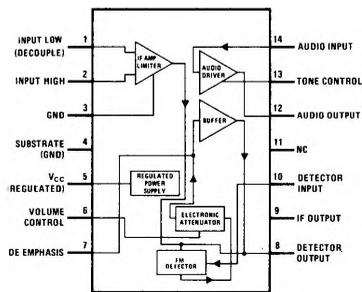
The LM3065 television sound system is a monolithic integrated circuit which combines a multi-stage IF amplifier limiter, an FM detector, an electronic attenuator, a zener diode regulated power supply, and an audio amplifier-driver that is designed to directly drive an NPN power transistor or high-transconductance tube. Because the circuit is so inclusive, a minimum number of external components is required.

The LM3065 provides a high-performance multi-stage subsystem for the sound system of a television receiver. A particular feature is the electronic attenuator which performs the conventional volume control function.

Outstanding features include:

- Electronic attenuator-replaces conventional volume control
- Differential peak detector-requires one single tuned coil
- Internal zener diode regulated supply
- Inherent high stability
- Excellent AM rejection-50 dB typ. at 4.5 MHz
- Low harmonic distortion
- High sensitivity-200 μ V limiting (knee) at 4.5 MHz
- Audio drive capability-6 mA p-p
- Undistorted audio output voltage-7V p-p

connection diagram



TOP VIEW