

ORDERING INFORMATION

Device	Temperature Range	Package
MC3360P	-10°C to +75°C	Plastic DIP

MC3360P

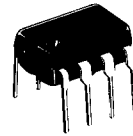
1/4-WATT AUDIO AMPLIFIER

... designed for the output stage of battery-powered portable radios.

- 250 mW of Audio Output Power
- Low Standby Current – 3.5 mA typical
- Low Harmonic Distortion
- Reduces Component Count in Portable Radios
- Formerly MFC4000B Packaged in Plastic Case 206A.

1/4-WATT AUDIO AMPLIFIER

SILICON MONOLITHIC
FUNCTIONAL CIRCUIT

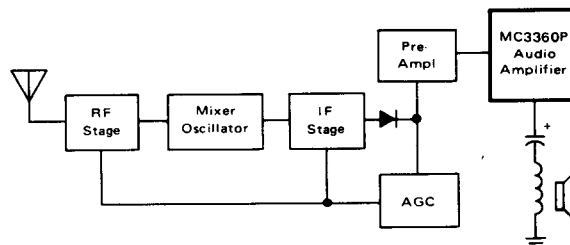


PLASTIC PACKAGE
CASE 626

MAXIMUM RATINGS (T_A = +25°C unless otherwise noted.)

Rating	Value	Unit
Power Supply Voltage	12	Vdc
Power Dissipation (Package Limitation)	1.2	Watts
Derate above T _A = +25°C	10	mW/°C
Operating Ambient Temperature Range	-10 to +75	°C

TYPICAL APPLICATION

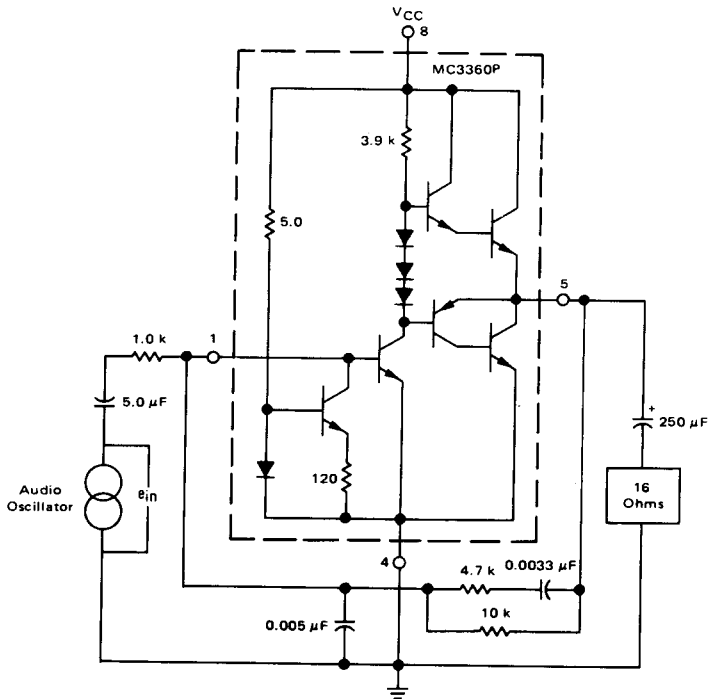


ELECTRICAL CHARACTERISTICS* ($V_{CC} = 9.0 \text{ Vdc}$, $R_L = 16 \text{ Ohms}$, $T_A = +25^\circ\text{C}$ unless otherwise noted.)

Characteristic	Min	Typ	Max	Unit
Zero Signal Current Drain	—	3.0	5.0	mAdc
Sensitivity $P_O = 250 \text{ mW(RMS)}$	—	—	240	mV(RMS)
Output Power Total Harmonic Distortion $\leq 10\%$	250	350	—	mW(RMS)
Total Harmonic Distortion $P_O = 50 \text{ mW(RMS)}$ $P_O = 50 \text{ mW(RMS)}$, $V_{CC} = 6.0 \text{ Vdc}$	—	0.7 4.5	—	%

*As measured in test circuit shown in Figure 1.

FIGURE 1 – TEST CIRCUIT



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TOTAL HARMONIC DISTORTION versus OUTPUT POWER

FIGURE 2 - $V_{CC} = 9.0$ Vdc

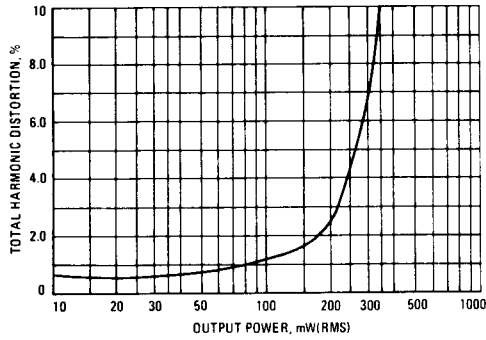


FIGURE 3 - $V_{CC} = 6.0$ Vdc

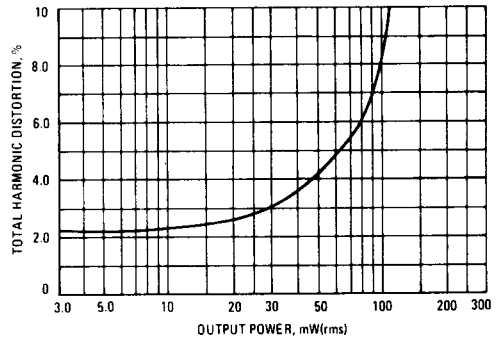


FIGURE 4 - CURRENT DRAIN versus OUTPUT POWER

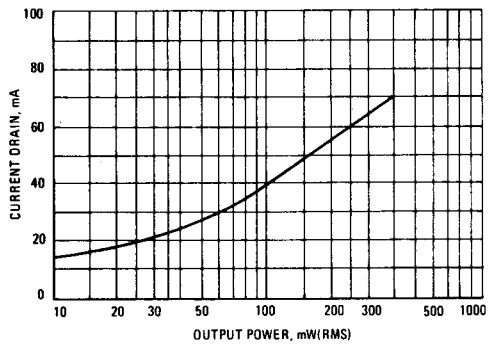


FIGURE 5 - TOTAL HARMONIC DISTORTION versus SUPPLY VOLTAGE

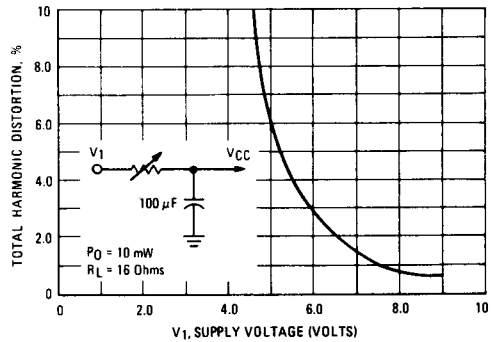


FIGURE 6 - TYPICAL CIRCUIT APPLICATION

