ORDERING INFORMATION

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

MC3360P

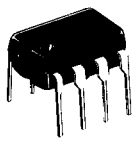
1/4-WATT AUDIO AMPLIFIER

. . . 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

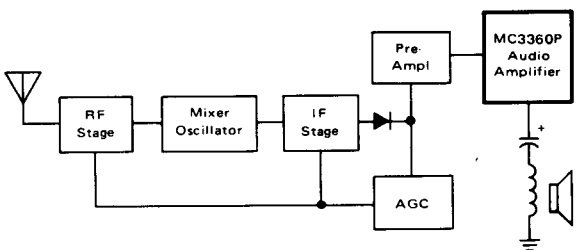


PLASTIC PACKAGE
CASE 626

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

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

TYPICAL APPLICATION

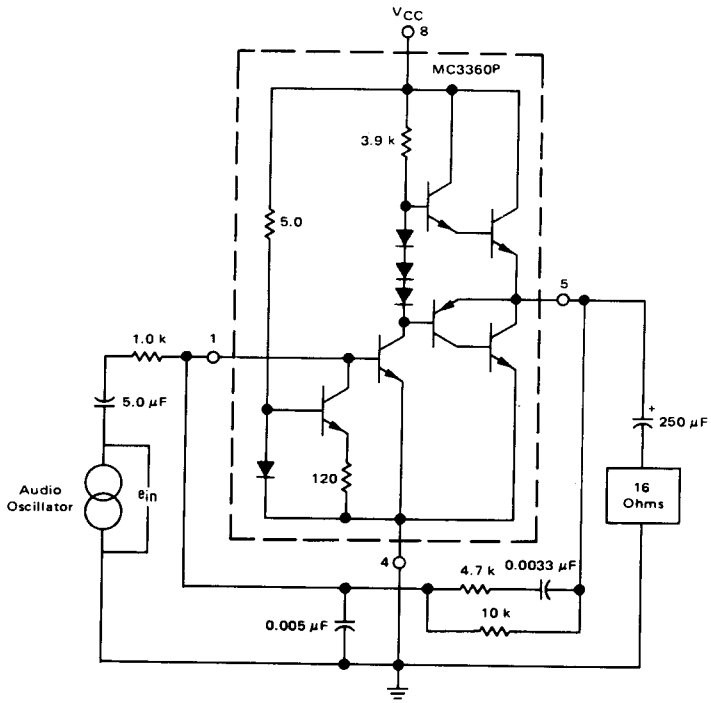


ELECTRICAL CHARACTERISTICS* (V_{CC} = 9.0 Vdc, R_L = 16 Ohms, T_A = +25°C unless otherwise noted.)

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

*As measured in test circuit shown in Figure 1.

FIGURE 1 – TEST CIRCUIT



TOTAL HARMONIC DISTORTION versus OUTPUT POWER

FIGURE 2 – V_{CC} = 9.0 Vdc

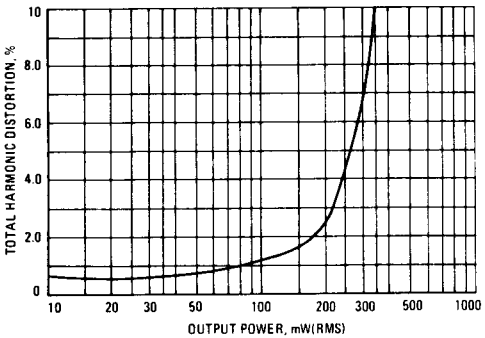


FIGURE 3 – V_{CC} = 6.0 Vdc

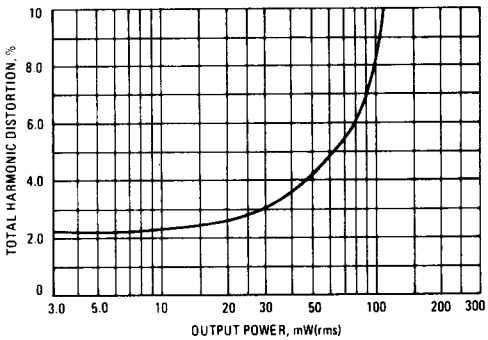


FIGURE 4 – CURRENT DRAIN versus OUTPUT POWER

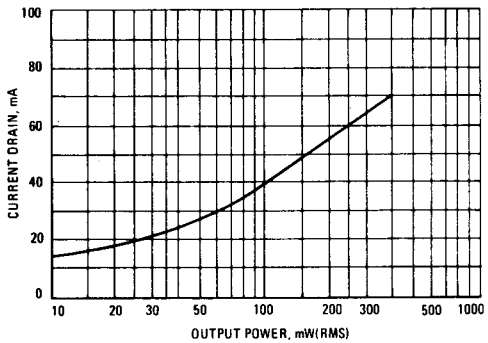


FIGURE 5 – TOTAL HARMONIC DISTORTION versus SUPPLY VOLTAGE

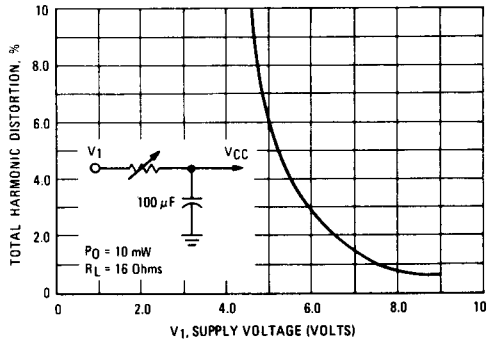
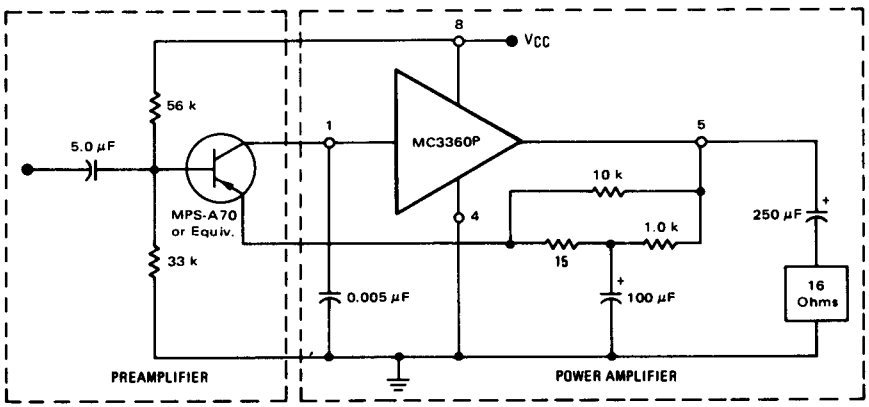


FIGURE 6 – TYPICAL CIRCUIT APPLICATION



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