MFC8020A

AUDIO DRIVER

Advance Information

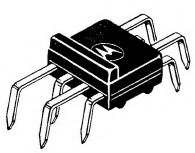
CLASS B AUDIO DRIVER

. . . designed as a preamplifier and driver circuit for complementary output transistors.

- Drives Up to 15-Watts Output (Four-Ohm Load)
- High Gain – 10 mV Input for Full Output
- High Input Impedance – 1 Meg Ohm Typ
- Output Biasing Diodes Included
- No Special h_{FE} Matching of Outputs Required

CLASS B AUDIO DRIVER

Silicon Monolithic
Functional Circuit

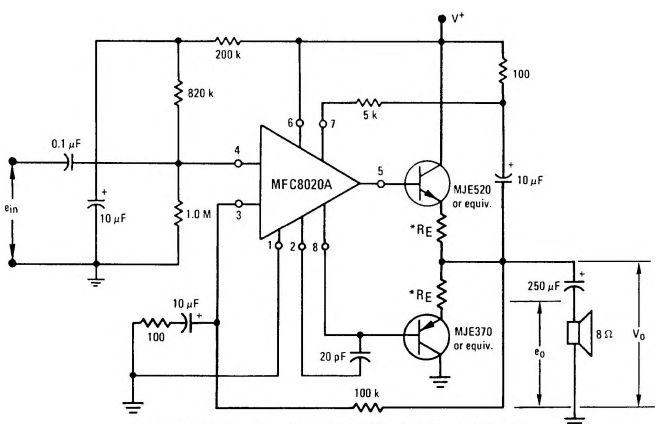


CASE 644A
PLASTIC PACKAGE

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Power Supply Voltage	V^+	35	Vdc
Thermal Resistance Derate above T_A = +25°C	θ_{JA}	100 10	°C/Watt mW/°C
Operating Temperature	T_A	-10 to +75	°C

FIGURE 1 – TYPICAL APPLICATION AND TEST CIRCUIT (10-WATT AMPLIFIER)



*R_E may be required for bids stabilization, depending upon output devices, heat sinks and circuit application. All test and measurements shown on this data sheet are for R_E = 0.

This is advance information and specifications are subject to change without notice.
See Packaging Information Section for outline dimensions.

ELECTRICAL CHARACTERISTICS (T_A = +25°C unless otherwise noted) (See Figure 1)

Characteristic	Symbol	Min	Typ	Max	Unit
Drain Current (e_{in} = 0, V^+ = 32 Vdc)	I_D	–	10	30	mA
Sensitivity (f = 1.0 kHz, P_o = 10 W, e_o = 8.95 V [rms])	e_{in}	–	–	10	mV
Distortion @ 10 Watts Power Output (e_{in} adjusted to produce 10-Watts output, e_o = 8.95 V(rms), V^+ = 32 Vdc, f = 1.0 kHz)	THD	–	1.0	5.0	%
Quiescent Output Voltage (V^+ = 32 Vdc, e_{in} = 0)	V_o	15	16	17	Vdc

FIGURE 2 – CIRCUIT SCHEMATIC