

Electrical Characteristics

$V_{CC}=+25V$, $-V_{EE}=-25V$, $T_{AMBIENT}=25^{\circ}C$, $R_L=8\Omega$, $A_V=20$ (26 dB), $f_o=1$ kHz, unless otherwise specified.

Parameter	Conditions	Typical	Tested Limits	Units
Supply Current	$P_{OUT}=0W$	70	100	mA
Output Power ⁽¹⁾	THD=1%	25		W
THD ⁽¹⁾	$P_{OUT}=20W$, $f_o=1$ kHz	0.015		%
	$P_{OUT}=20W$, $f_o=20$ kHz	0.05	0.4	%
	$P_{OUT}=20W$, $R_L=4\Omega$, $f_o=1$ kHz	0.022		%
	$P_{OUT}=20W$, $R_L=4\Omega$, $f_o=20$ kHz	0.07	0.6	%
Offset Voltage		± 1	± 15	mV
Input Bias Current		± 0.2	± 2	μA
Input Offset Current		0	± 0.5	μA
Gain-Bandwidth Product	$f_o=20$ kHz	5.5		MHz
Open Loop Gain	DC	90		dB
PSRR	V_{CC} , 1 kHz, 1 Vrms	95	52	dB
	V_{EE} , 1 kHz, 1 Vrms	83	52	dB
Max Slew Rate	20W, 8 Ω , 70 kHz BW	8		V/ μs
Current Limit	$V_{OUT} = V_{SUPPLY} - 10V$	4	3	A
Equivalent Input Noise Voltage	$R_S=600\Omega$, CCIR	3		$\mu Vrms$

- (1) Assumes the use of a heat sink having a thermal resistance of $1^{\circ}C/W$ and no insulator with an ambient temperature of $25^{\circ}C$. Because the output limiting circuitry has a negative temperature coefficient, the maximum output power delivered to a 4 Ω load may be slightly reduced when the tab temperature exceeds $55^{\circ}C$.

Typical Applications For Single Supply Operation

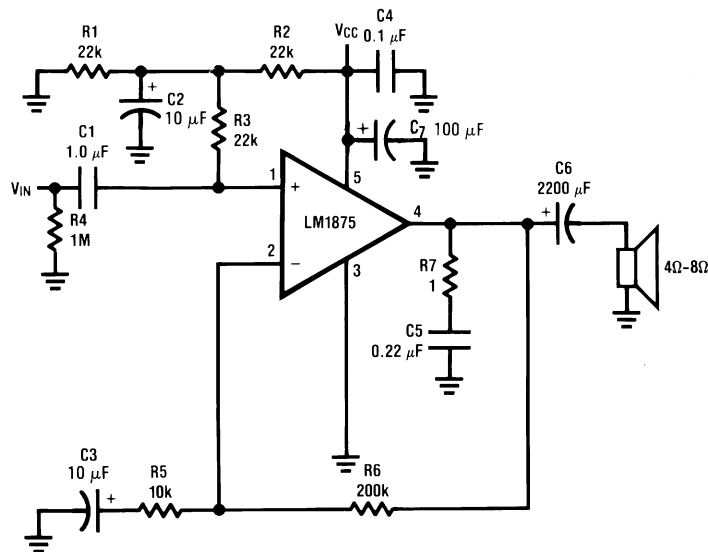


Figure 2.

Typical Performance Characteristics

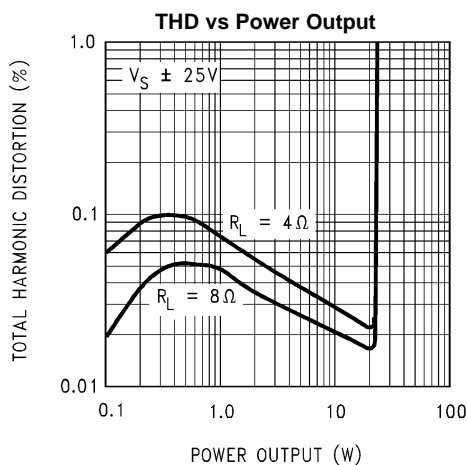


Figure 3.

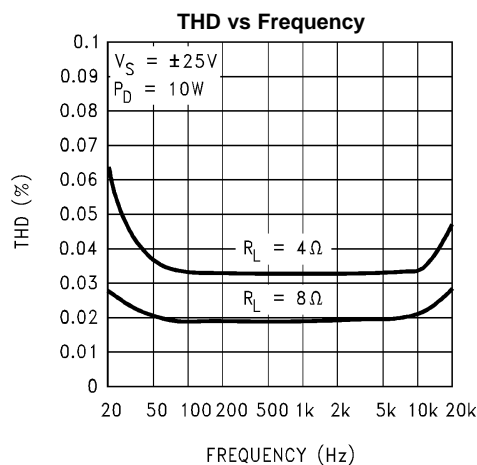


Figure 4.

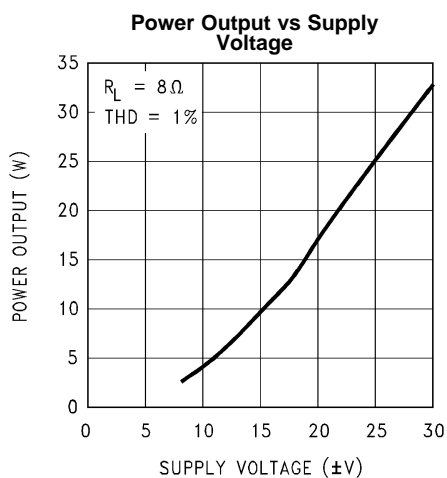


Figure 5.

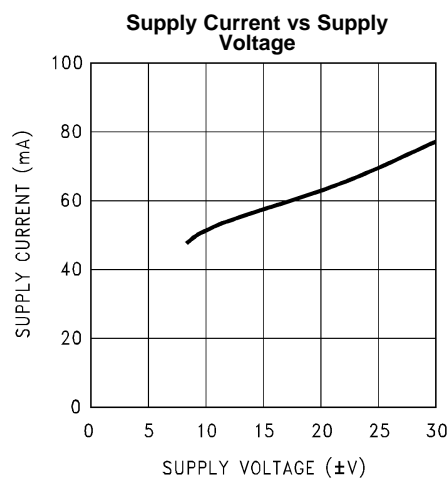


Figure 6.

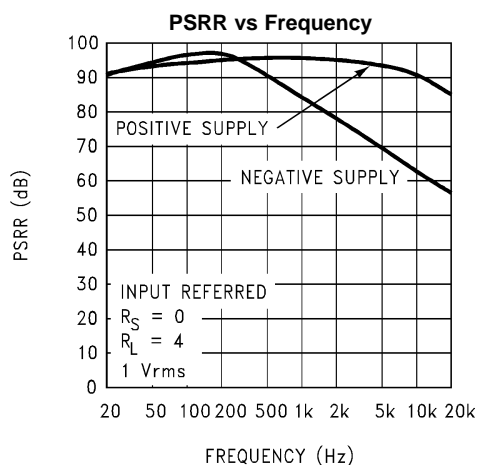


Figure 7.

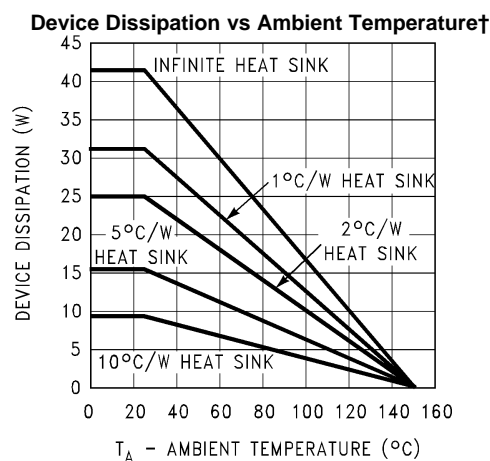


Figure 8.

† ϕ INTERFACE = $1^{\circ}C/W$.
See [Application Hints](#).

Typical Performance Characteristics (continued)

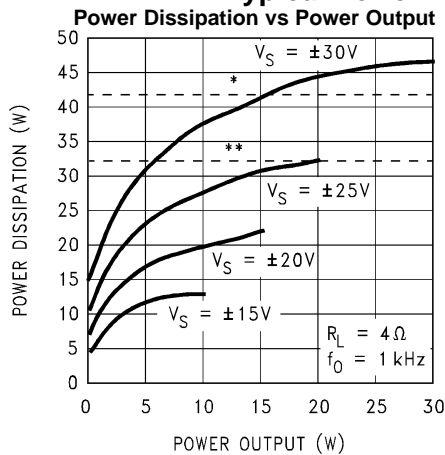


Figure 9.

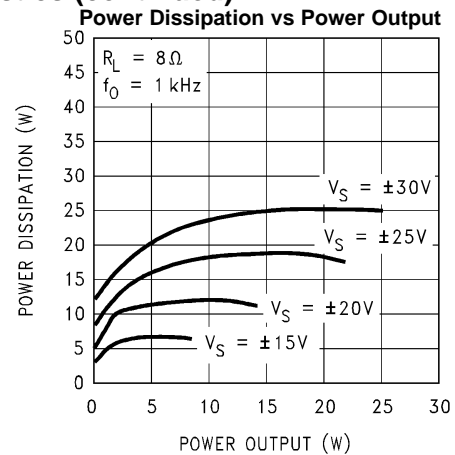


Figure 10.

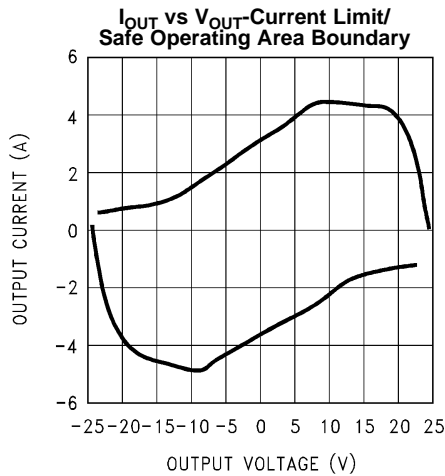
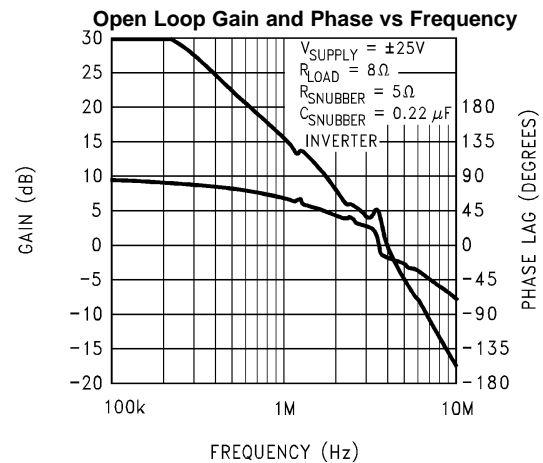


Figure 11.



Thermal shutdown with infinite heat sink

Thermal shutdown with 1°C/W heat sink

Figure 12.

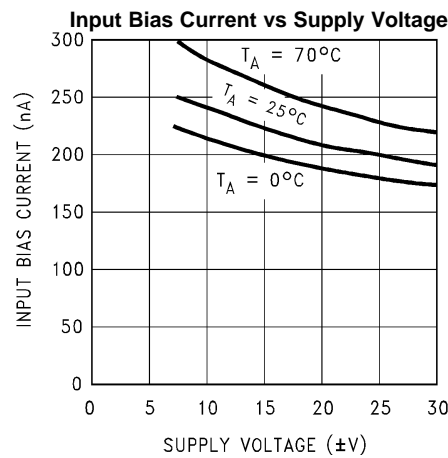


Figure 13.