



# ECG1035

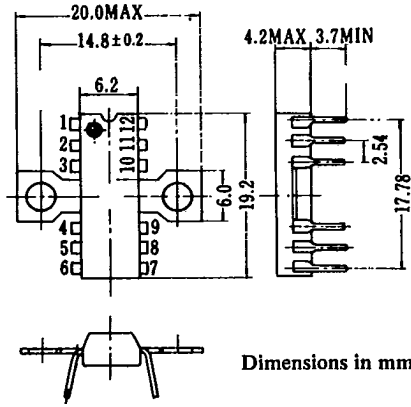
## 1W OTL AUDIO POWER AMPLIFIER

PACKAGE

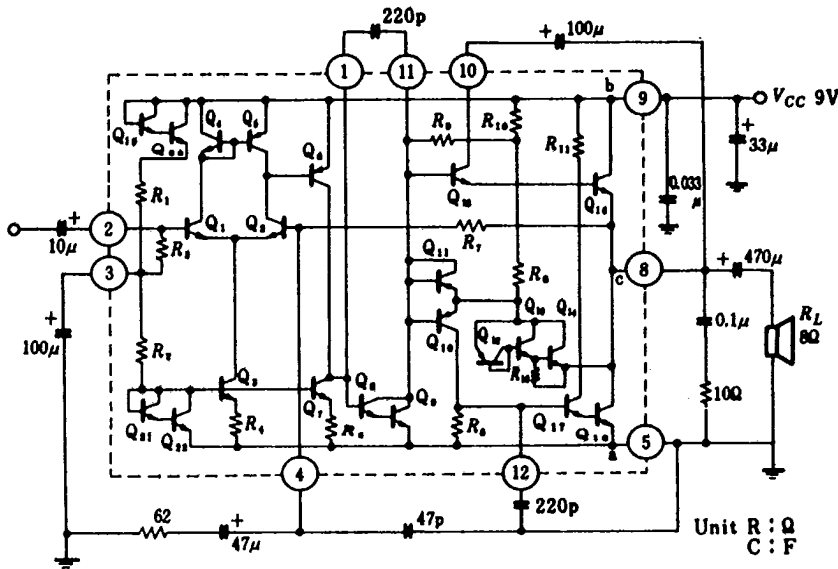
ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

V <sub>CC</sub> .....	12 V
I <sub>O</sub> (peak) .....	0.75 A
P <sub>f</sub> .....	0.9 W
T <sub>opr</sub> * .....	-30 ~ +70°C
T <sub>stg</sub> .....	-55 ~ +125°C

\* Value when attach on the heat sink plate  
(θ<sub>f</sub> = 58°C/W) at P<sub>f</sub> = 0.75 W



CIRCUIT SCHEMATIC & TYPICAL EXTERNAL PARTS



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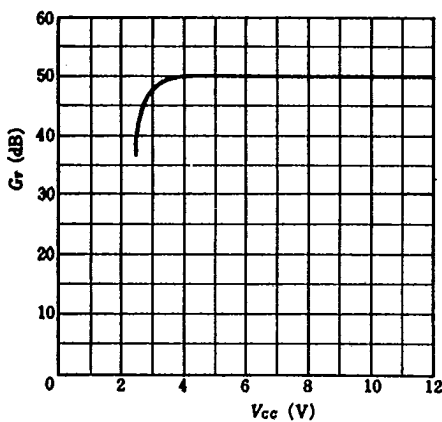
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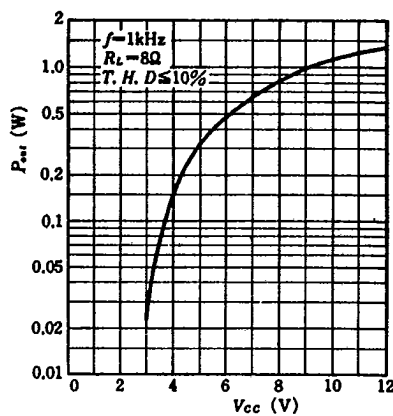
ELECTRICAL CHARACTERISTICS ( $V_{CC} = 9\text{ V}$ ,  $f = 1\text{ kHz}$ ,  $R_L = 8\text{ Ohms}$ ,  $T_a = 25^\circ\text{C}$ )

Symbol	Test Conditions	Min.	Typ.	Max.	Unit
$G_V(\text{OL})$		--	90	--	dB
$G_V$		--	50	--	dB
T.H.D	$P_{\text{out}} = 50\text{ mW}$	--	0.2	0.6	%
$P_{\text{out}}$	T.H.D = 10%	0.75	1.0	--	W
S/N	$R_g = 0$ , $P_{\text{out}} = 50\text{ mW}$ , with $f = 20\text{ kHz L.P.F}$	--	66	--	dB
$R_{\text{in}}$		13	20	--	k Ohm

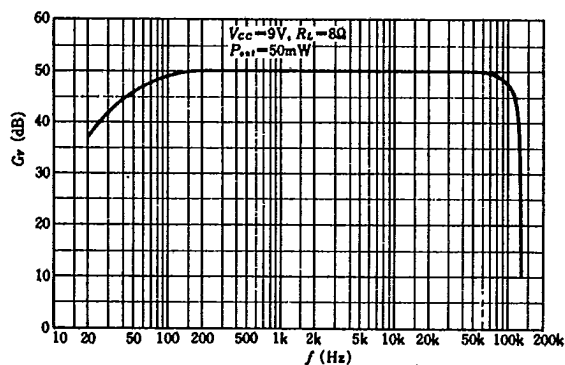
VOLTAGE GAIN VS. SUPPLY VOLTAGE



OUTPUT POWER VS. SUPPLY VOLTAGE



VOLTAGE GAIN VS. FREQUENCY

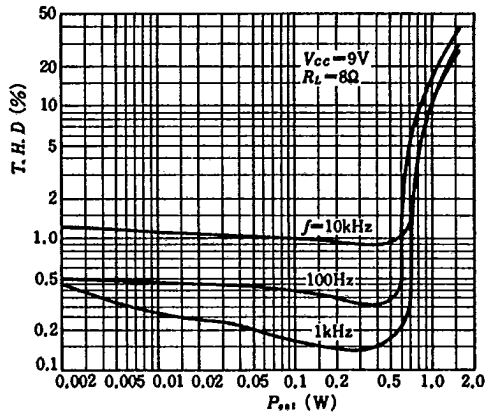


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### TOTAL HARMONIC DISTORTION VS. OUTPUT POWER



### POWER DISSIPATION VS. OUTPUT POWER

