

# TA7060AP

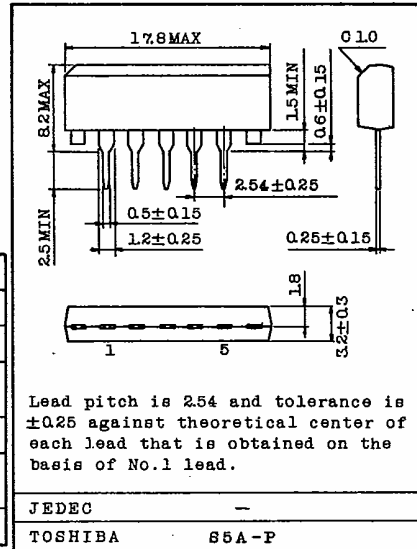
T-74-09-01

FOR FM IF AMPLIFIER

FOR TV SIF AMPLIFIER

- Recommended for Wide and Narrow Bands Amplifier.
- Excellent FM/IF Limiter Circuit.

Unit in mm



## MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	$V_{CC}$	15	V
Output Voltage	$V_{OUT}$	24	V
Input Voltage (Between 1 pin and 2 pin)	$V_{IN}$	$\pm 15$	V
Power Dissipation (Note)	$P_D$	400	mW
Operating Temperature ( $V_{CC}=12\text{V}$ )	$T_{opr}$	$-30 \sim 75$	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	$-55 \sim 125$	$^\circ\text{C}$

Note: Derated above  $T_a=25^\circ\text{C}$  in the proportion of  $4 \text{ mW}/^\circ\text{C}$ .

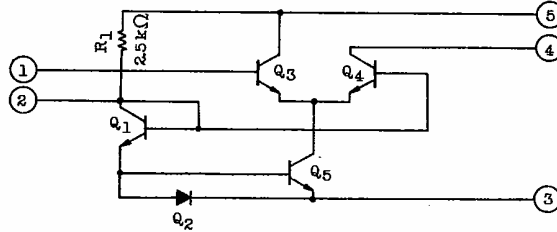
## ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Current		$I_{CC}$	1	$V_{CC}=12\text{V}$	5.3	9.5	14	mA
				$V_{CC}=9\text{V}$	-	6.5	-	
Power Dissipation		$P_D$	1	$V_{CC}=12\text{V}$	-	114	-	mW
				$V_{CC}=9\text{V}$	-	59	-	
Power Gain		$G_p$	2	$V_{CC}=12\text{V}, f=10.7\text{MHz}$	27	30	33	dB
				$V_{CC}=9\text{V}, f=10.7\text{MHz}$	-	27	-	
Voltage Gain		$G_v$	3	$V_{CC}=12\text{V}, R_g=50\Omega, R_L=1\text{k}\Omega$	-	26.5	-	dB
Input Impedance	Parallel Input Resistance	$r_{ip}$	-	$V_{CC}=12\text{V}$ $f=10.7\text{MHz}$	-	3.5	-	$\text{k}\Omega$
	Parallel Input Capacitance	$c_{ip}$			-	8.0	-	pF
Output Impedance	Parallel Output Resistance	$r_{op}$	-	$V_{CC}=12\text{V}$ $f=10.7\text{MHz}$	-	80	-	$\text{k}\Omega$
	Parallel Output Capacitance	$c_{op}$			-	3.0	-	pF
Forward Transfer Admittance		$y_f$	-	-	-	30	-	$\text{m}\Omega$
Reverse Transfer Admittance		$y_r$	-	-	-	2.0	-	$\mu\Omega$

AUDIO LINEAR IC

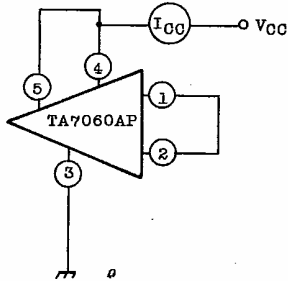
# TA7060AP

## EQUIVALENT CIRCUIT

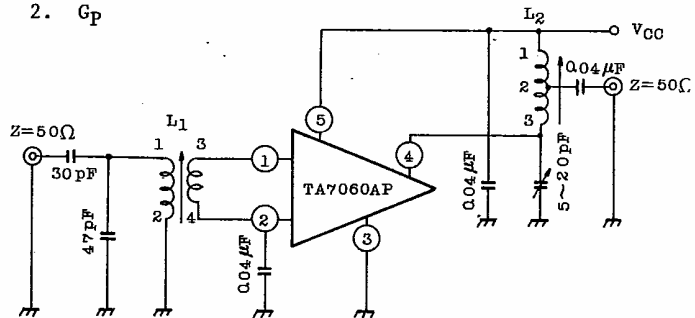


## TEST CIRCUIT

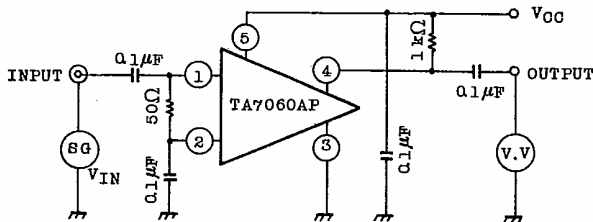
### 1. $I_{CC}, P_D$



### 2. $G_p$



### 3. $G_V$



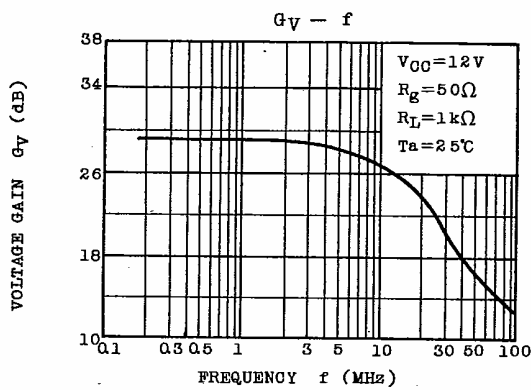
$L_1$  : Between terminals 1 and 2  
16 Turns.

Between terminals 3 and 4  
2 Turns.

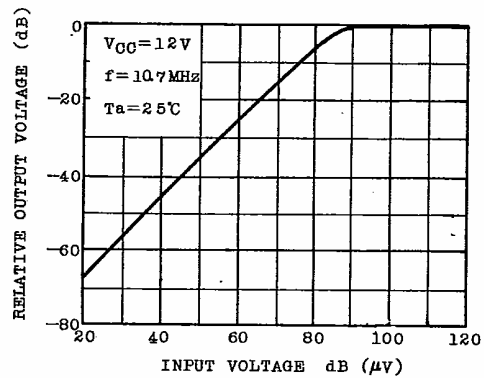
$L_2$  : Between terminals 1 and 2  
15 Turns.

Between terminals 1 and 3  
25 Turns.

0.10mm  $\varnothing$  UEW



## INPUT-OUTPUT CHARACTERISTICS



**TOSHIBA**

