

STK020

THICK FILM HYBRID INTEGRATED CIRCUIT
FOR 13WATTS TYP. AF POWER AMPLIFIER
(2 POWER SUPPLY)ABSOLUTE MAXIMUM RATINGS/ $T_a=25^{\circ}\text{C}$

Maximum Supply Voltage	$V_{CC \text{ max}}$	$\begin{matrix} +22 \\ - \end{matrix}$	V
Available Load Shorting Time	$(V_{CC}=+16\text{V}, P_O=10\text{W}, R_L=8\Omega, f=50\text{Hz})$	2	sec
Operating Case Temperature	T_c	85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-30 - +100	$^{\circ}\text{C}$

RECOMMENDED OPERATION RATINGS / $T_a=25^{\circ}\text{C}$

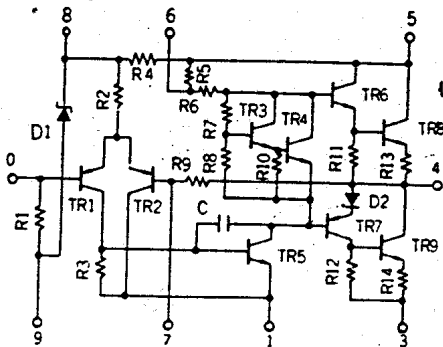
Recommended Supply Voltage	V_{CC}	$\begin{matrix} +16 \\ - \end{matrix}$	V
Load Resistance	R_L	8	Ω

OPERATION CHARACTERISTICS/ $T_a=25^{\circ}\text{C}, V_{CC}=+16\text{V}, R_L=8\Omega, R_g=600\Omega, f=1\text{KHz}$

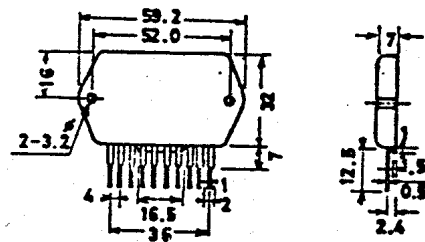
		min	typ	max	Unit
Total Current	I_{CC0}			50	mA
Output Power	P_O KF=1.0%	10	13		W
Voltage Gain	VG $P_O=0.1\text{W}$	32	33	34	dB
Distortion	KF $P_O=0.1\text{W}$			1.0	%
Input Impedance	r_i $P_O=0.1\text{W}$	20K	27K		Ω
High Cut-off Frequency	f_{CH} $V_i=50\text{mV}, -3\text{dB}$	100K			Hz
Low Cut-off Frequency	f_{CL} $V_i=50\text{mV}, -3\text{dB}$			10	Hz
Power Bandwidth	PBW KF=1.0%, $\begin{matrix} +3\text{dB} \\ - \end{matrix}$	20	- 25K		Hz
Output Center Point DC Voltage ΔV_N		-100	0	+100	mV
Output Noise Voltage	V_{NO} $R_g=5\text{K}\Omega$			3.0	mV

CASE OUTLINE(unit: mm)

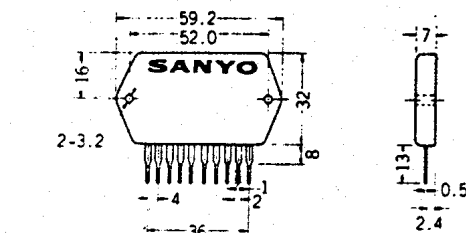
STK-020



(A)



(E)



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