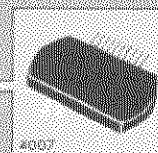


STK-024, 031,035

thick film hybrid IC

20 to 30Wmin AF POWER AMP.



Features

- © IMST, 1 Channel by 1 Power Supply.
- AF output power STK-024: 20W min.
STK-031: 25W min.
STK-035: 30W min.
- Emitter feedbacked direct coupled amp. Small shock noise.

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

		STK-024	STK-031	STK-035	unit
Maximum Supply Voltage	$V_{CC\text{max}}$ (pin 0 to 8)	60	66	70	V
Operating Case Temperature	T_C	→	85	←	$^\circ\text{C}$
Storage Temperature	T_{stg}	→	-30 to +100	←	$^\circ\text{C}$
Allowable Loading Shorting Time t_s	recommended operation condition, rated power output, $f=50\text{Hz}$	→	2	←	sec

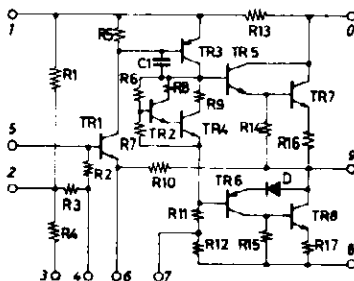
RECOMMENDED OPERATION CONDITION / $T_a=25^\circ\text{C}$

		STK-024	STK-031	STK-035	unit
Recommended Supply Voltage	V_{CC}	44	48	54	V
Load Resistance	R_L	→	8	←	ohm

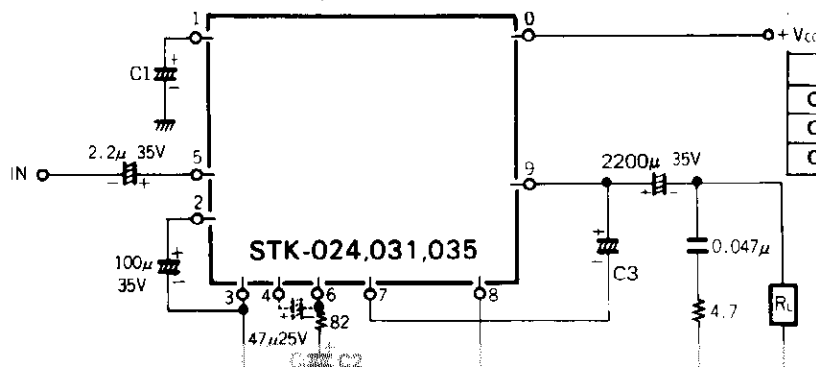
OPERATION CHARACTERISTICS / $T_a=25^\circ\text{C}$, in recommended condition, $R_g=600\text{ ohm}$, $f=1\text{kHz}$

		STK-024	STK-031	STK-035	unit
Quiescent Current	I_{CCO}	→	50	←	mA max
Output Power	P_o THD=0.5%	20	25	30	Wmin
Voltage Gain	V_G $P_o=0.1\text{W}$	→	30	←	dB
Distortion	THD $P_o=0.1\text{W}$	→	0.2	←	%max
Input Resistance	r_i $P_o=0.1\text{W}$	30k	30k	30k	ohm
Power Bandwidth	PBW THD=0.5%, -3dB	20-30k	20-30k	20-20k	Hz

EQUIVALENT CIRCUIT



APPLICATION: AF Power Amp.



	STK-024	STK-031, 035
C1	100μ/50V	100μ/100V
C2	100μ/16V	100μ/ 35V
C3	47μ/25V	47μ/ 35V