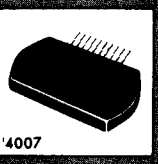
# STK-084,086, 085-105

thick film hybrid IC

50 to 70W min AF POWER AMP




**Features**

- © IMST, 1 Channel by 2 Power Supply.
- AF Output Power STK-084: 50 Wmin.
  STK-085-105: 60 Wmin.
  STK-086: 70 Wmin.
- Capable of setting protector for load shorting and tone controller.

## MAXIMUM RATINGS / Ta=25°C

| | | STK-084 | STK-085 -105 | STK-086 | unit |
|---|---|---|---|---|---|
| Maximum Supply Voltage | $V_{CC}$ max | ±50 | ±55 | ±55 | V |
| Collector Current | $I_C$ max | 7 | – | 7 | A |
| Thermal Coefficient | $\theta_{j-c}$ ($T_C$=25°C) | 1.7 | – | 1.4 | °C/W |
| Operating Case Temperature | $T_C$ | 85 | 105 | 85 | °C |
| Storage Temperature | $T_{sgt}$ | –30to+100 | –30to+105 | –30to+100 | °C |

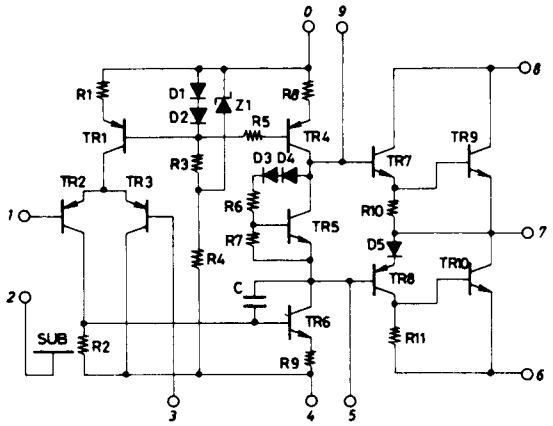
## RECOMMENDED OPERATION CONDITION / Ta=25°C

| | | STK-084 | STK-085 -105 | STK-086 | unit |
|---|---|---|---|---|---|
| Recommended Supply Voltage | $V_{CC}$ | ±35 | ±38 | ±42 | V |
| Load Resistance | $R_L$ | → | → | 8 | ohm |

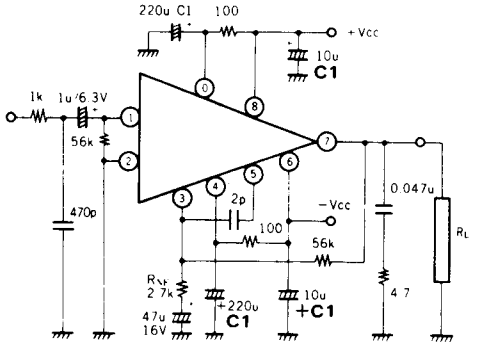
## OPERATION CHARACTERISTICS / Ta=25°C, recommended $V_{CC}$ supplied, $R_L$= 8 ohm, Rg=600 ohm, VG=26.4dB

| | | | STK-084 | STK-085 -105 | STK-086 | unit |
|---|---|---|---|---|---|---|
| Quiescent Current | $I_{cco}$ | | → | → | 100 | mAmax |
| Output Power | Po | THD=0.2%, f=20 to 20 kHz | 50 | 60 | 70 | Wmin |
| Distortion | THD | f=20 to 20 kHz rated output power | → | → | 0.2 | %max |
| Frequency Response | f | Po=1W, $^{+0}_{-1}$ dB | → | → | 10 to 100k | Hz |
| Input Resistance | $r_i$ | Po=1W, f=1 kHz | → | → | 52k | ohm |

## EQUIVALENT CIRCUIT




## APPLICATION: AF Power Amp.




| | C1 |
|---|---|
| STK-084 | 50V |
| STK-085-105 STK-086 | 63V |

See the operation characteristics on this specification.

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.