

STK4273

Thick Film Hybrid IC

2-Channel AF Power Amp

TENTATIVE

Case Outline : 15 pins (See attached case outline drawing.)

Function : 2-channel / 1-pack AF power amp

Use : Video projectors

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

| | | | |
|-----------------------------------|--|-------------|--------------------|
| Supply Voltage | V_{CC} | ± 30 | V |
| Operating Case Temperature | T_C | 105 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | -30 to +105 | $^\circ\text{C}$ |
| Available Time for Load Shorted t | $V_{CC} = \pm 20.5\text{V}, R_L = 8\Omega,$ $f = 50\text{Hz}, P_o = 18\text{W}$ | 2 | sec |
| Thermal Resistance | θ_{j-c} Total | 1.0 | $^\circ\text{C/W}$ |

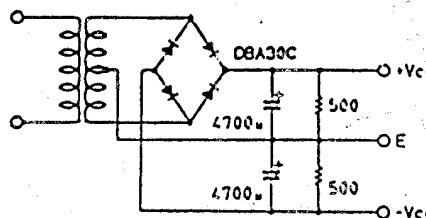
Operating Characteristics at $T_a = 25^\circ\text{C}, R_g = 50\Omega$, See attached Test Circuit.

| | | | min | typ | max | unit |
|----------------------|-----------|---|-----|-----|-----|-------------------|
| Output Noise Voltage | V_{NO} | $V_{CC} = \pm 24\text{V}$ | | | | 0.2 mVrms |
| Quiescent Current | I_{CCQ} | $V_{CC} = \pm 24\text{V}$ | | 15 | 25 | mA |
| Midpoint Voltage | V_N | $V_{CC} = \pm 24\text{V}$ | -50 | 0 | +50 | mV |
| Output Delay Time | t_D | $V_{CC} = \pm 20.5\text{V}, f = 15.75\text{kHz}$ triangular wave input $V_{P-P} = 1.5\text{V}$ | | | | 1 μsec |

Remarks

- For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.
- For measurement of the available time for load shorted and output noise voltage, use the specified transformer power supply shown below.
- The output noise voltage is represented by the peak value on rms scale (VTVM) of average value indicating type.

Specified transformer power supply
(equivalent to RP-25)



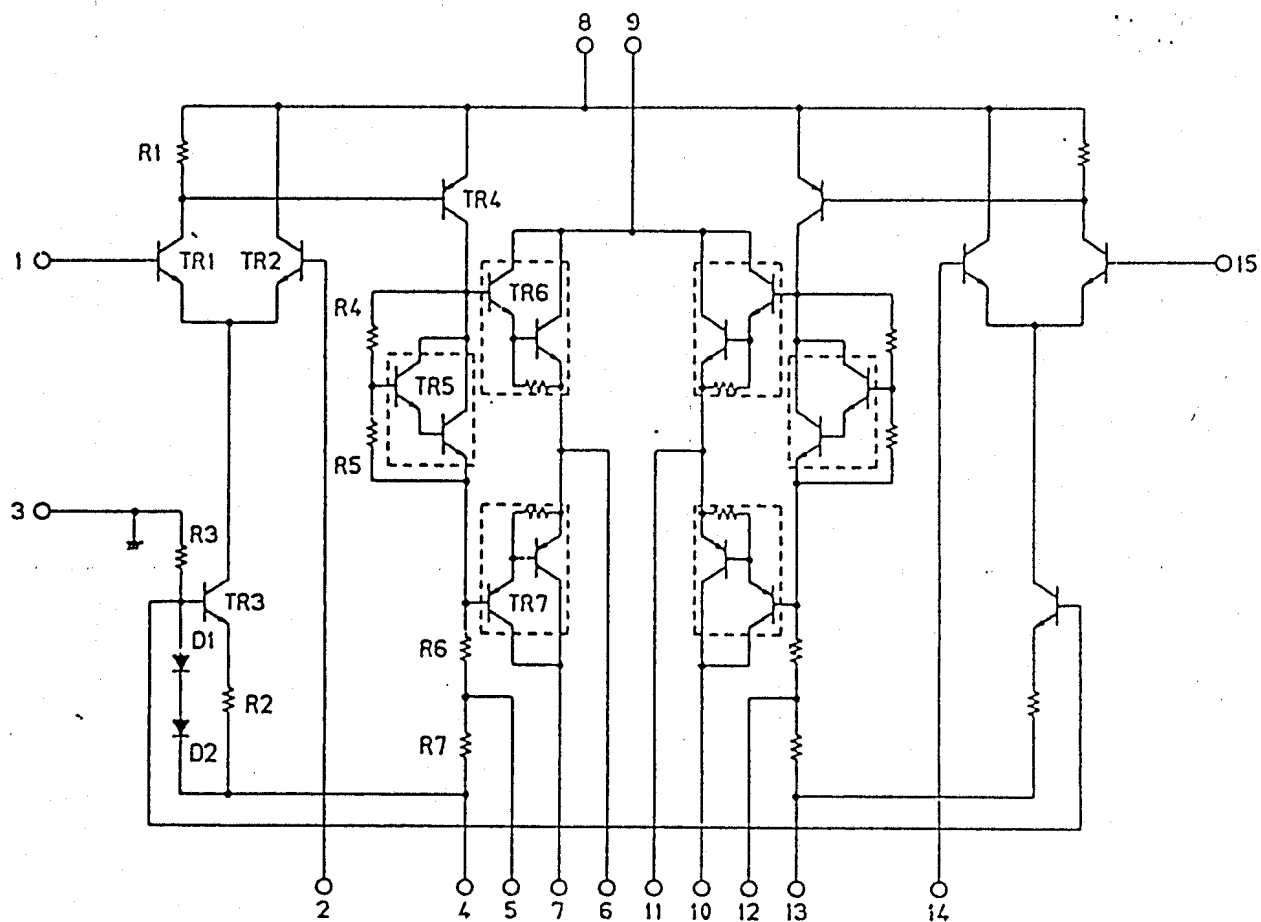
The application circuit diagrams and circuit constants herein are included as an example and provide no guarantees for designing equipment to be mass-produced. The information herein is believed to be accurate and reliable. However, no responsibility is assumed by SANYO for its use; nor for any infringements of patents or other rights of third parties which may result from its use.

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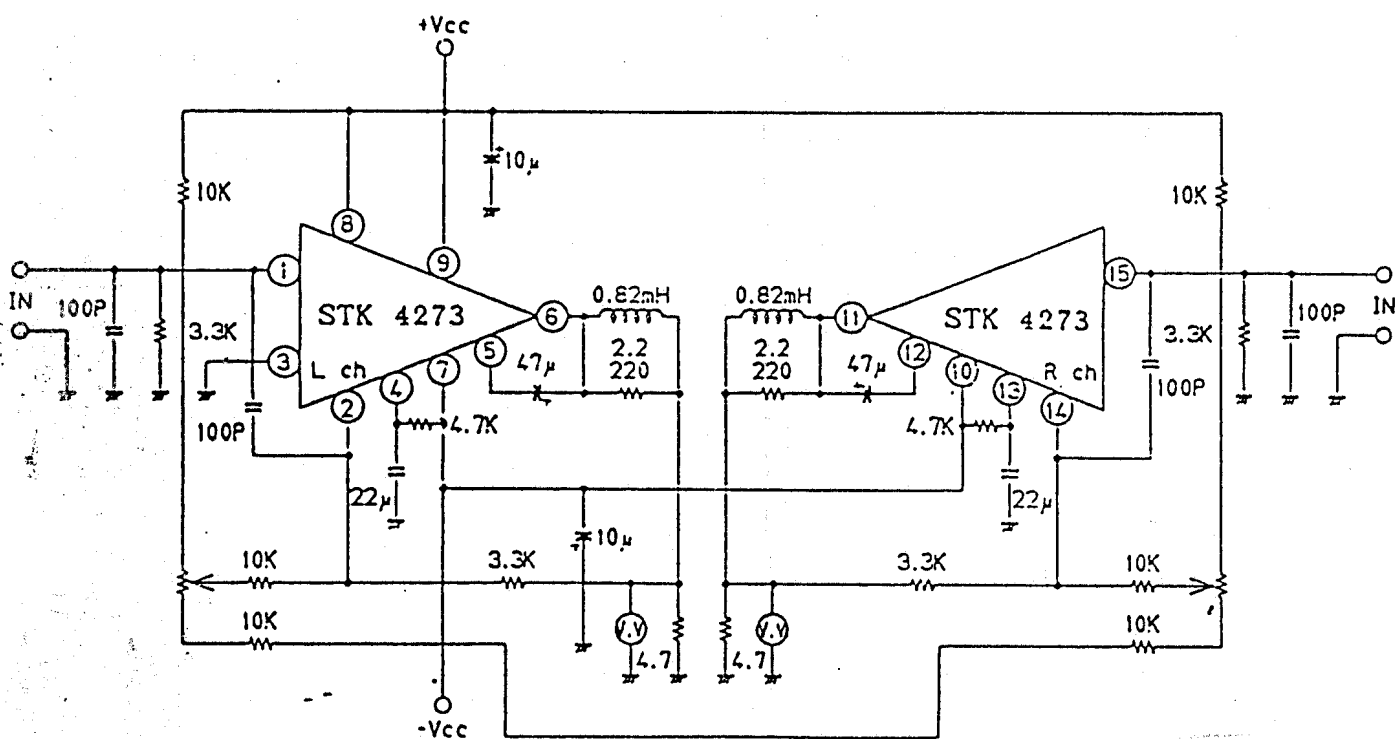
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5229YT/TS STK4273-1/3

Internal Equivalent Circuit (STK4273)



Test Circuit (STK4273)



Case Outline (unit: mm)

