

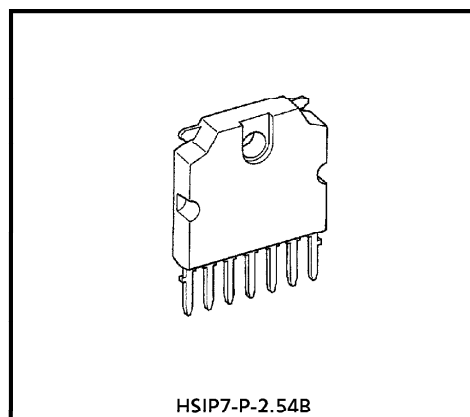
TA8427K

POWER AMPLIFIER FOR DRIVING A DEFLECTION CIRCUIT OF A COLOR TELEVISION

TA8427K is a power amplifier for driving a deflection circuit of a large and medium screen size color television. TA8427K is available for constructing a stable deflection circuit with small number parts in an application with a single chip signal processing IC TA8879N.

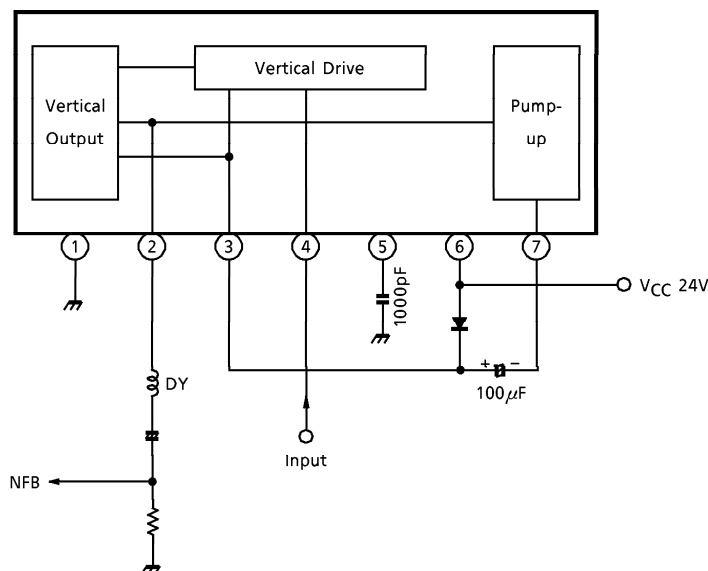
FEATURES

- Large output current ; 2.2A_{p-p} (Max.)
- Small power dissipation with a pump-up circuit
- Small number external parts



Weight : 0.7g (Typ.)

BLOCK DIAGRAM



TERMINAL NAME

1. GND
2. Vertical Output
3. Pump-up Power Supply
4. Input
5. Phase Compensation
6. Power Supply
7. Pump-up Output

961001EBA2

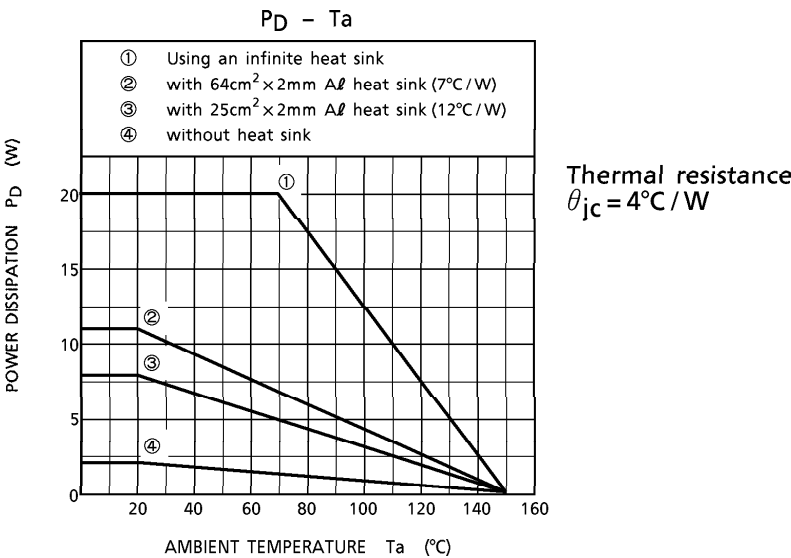
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MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Supply Voltage	V _{CC}	30	V
Pump-up Power Supply Voltage	V _{Vt}	60	V
Terminal Voltage	E _{in}	GND - 0.3 ~ V _{Vt} + 0.3	V
Input Signal Voltage	e _{in}	0 ~ 1.2	V
Deflection Current	i _d	± 1.5 (Note 1)	A
Power Dissipation	P _D	20 (Note 2)	W
Operating Temperature	T _{opr}	- 20 ~ 85	°C
Storage Temperature	T _{stg}	- 55 ~ 150	°C

(Note 1) Power on time ; 2ms, V_{CEO} = 60V

(Note 2) Using an infinite heat sink



RECOMMENDED OPERATING CONDITION

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT
Power Supply	V _{CC}	—	27	29	V
Deflection Output Current	I _{2p-p}	—	—	2.2	A _{p-p}

ELECTRICAL CHARACTERISTICS (Ta = 25°C, V_{CC} = 24V)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Saturation Voltage Of The Vertical Output Transistor (1)	V _{V (sat)} 1	1	(Note 1)	0.3	0.5	1.0	V
Saturation Voltage Of The Vertical Output Transistor (2)	V _{V (sat)} 2	1	(Note 2)	1.0	1.8	3.6	V
Saturation Voltage Of The Pump-up Output Transistor (1)	V _{P (sat)} 1	1	(Note 3)	1.0	2.0	3.0	V
Saturation Voltage Of The Pump-up Output Transistor (2)	V _{P (sat)} 2	1	(Note 4)	0.2	0.8	1.6	V
Output Current With No Input	I _b	1	(Note 5)	—	26.0	—	mA
Center Output Voltage	V _{center}			10.0	12.0	14.0	V

(Note 1) SW₁ : ON, SW₂ : C, SW₃ : ON, SW₄ : B, SW₅ : A, SW₆ : A
Measure the voltage of pin 2.

(Note 2) SW₁ : ON, SW₂ : C, SW₃ : ON, SW₄ : A, SW₅ : A, SW₆ : B
Measure the voltage of pin 2, V₂. V_{V (sat)} 2 = V_{CC} - V₂

(Note 3) SW₁ : ON, SW₂ : B, SW₃ : OFF, SW₄ : A, SW₅ : C, SW₆ : A
Measure the voltage of pin 7, V₇. V_{P (sat)} 1 = V_{CC} - V₇

(Note 4) SW₁ : OFF, SW₂ : C, SW₃ : OFF, SW₄ : A, SW₅ : B, SW₆ : B
Measure the voltage of pin 7.

(Note 5) SW₁ : ON, SW₂ : A, SW₃ : ON, SW₄ : C, SW₅ : A, SW₆ : B
Measure the sink current into pin 3.
Measure the voltage of pin 2.

[illegible][illegible]

Unit : mm

