TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

TA8432K

POWER AMPLIFIER FOR DRIVING A DEFLECTION CIRCUIT OF A **COLOR TELEVISION**

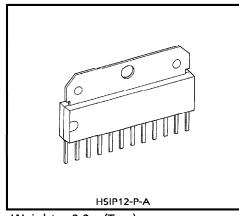
The TA8432K is a Vertical-Delection-Output circuit IC for middle and large aperture color televisions.

The TA8432K combines the vertical output circuit and the Ramp-generator in a 12 leads single-in-line type plastic package.

The TA8432K requires only vertical deflection negative pulses for vertical operation.

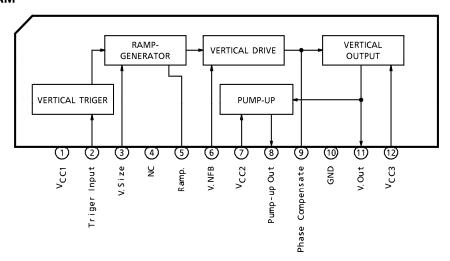
FEATURES

- Large output current : 2.2A_{p-p} (MAX.)
- Built-in Ramp-generator
- Built-in V.Driver circuit
- Small power dissipation Pump-Up circuit
- Vertical Output circuit
- Minimum number of external components'



Weight: 3.2g (Typ.)

BLOCK DIAGRAM



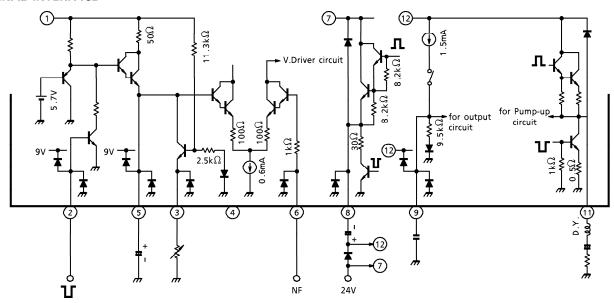
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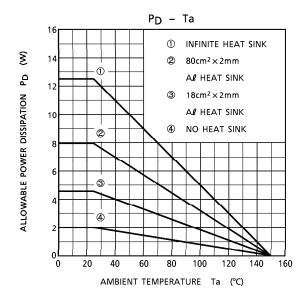
TERMINAL INTERFACE



MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
V.Driver Power Supply	Vcc	15	V
Pump-up Power Supply Voltage	Vcc	30	٧
Vertical Output Supply Voltage	Vcc	60	V
Power Dissipation	PD max	12.5 (Note)	W
Operating Temperature	T _{opr}	- 20∼8 5	°C
Storage Temperature	T _{stg}	- 55∼150	°C

(Note) Operate at Ta = 25°C with an infinite heat-sink.
With other heat-sink is shown below.



RECOMMENDED OPERATING CONDITIONS (Ta = 25°C)

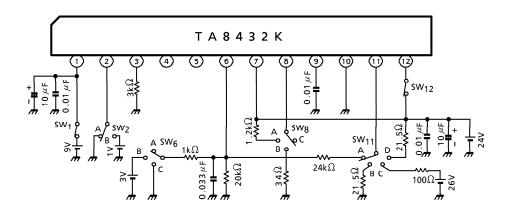
CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT
V.Driver Supply Voltage	V _{CC1}	8.1	9.0	9.9	V
Pump-up Supply Voltage	V _{CC2}	_	24	29	٧
Deflection Output Current	I _{11p-p}	_	_	2.2	A _{p-p}

ELECTRICAL CHARACTERISTICS (Ta = 25°C, $V_{CC1} = 9V$, $V_{CC2} = 24V$)

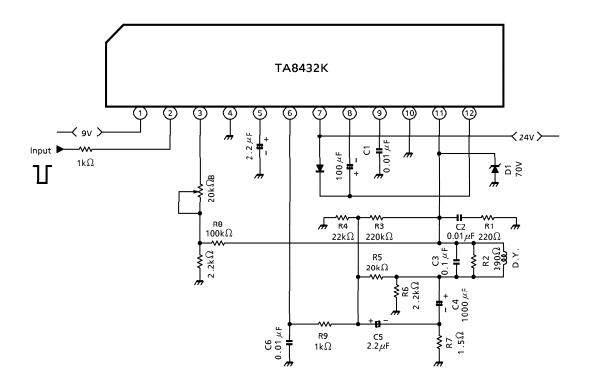
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CHARACTERISTIC	SYMBOL	TEST CIR- CUIT	NOTE	MIN.	TYP.	MAX.	UNIT
V.Driver Supply Current	l _{CC1}		1	2	5.0	12	mA
Vertical Triger Threshold	V ₂	_	2	_	_	1.0	٧
Pin 3 DC Voltage	V ₃	_	3	1.0	1.5	2.0	٧
Ramp-signal Maximum Voltage	V ₅	_	4	3.5	4.8	6.0	V
Ramp-signal Maximum Amplitude	V _{5p-p}	_	4	3.5	4.5	5.5	V _{p-p}
Output Tr. Satulation Voltage	V _{S11} – 10	_	5	0.2	0.5	1.0	V
Output Tr. Satulation Voltage 2	V _{S12} – 11	_	6	1.0	1.8	3.6	٧
Pump-up Tr. Satulation Voltage 1	V _{S7} – 8	_	7	1.0	2.0	5.0	V
Pump-up Tr. Satulation Voltage 2	VS8 – 10		8	0.2	0.8	1.6	>
Idling Current	lb	_	9		26		mA
Vertical Output Center Voltage	VCENTER	_	10	8.0	12.0	14.0	V

NOTE	SW						TEST	
NOTE	1	2	6	8	11	12	TERMINAL	
1	ON	Α	Α	С	Α	ON	1	
2	ON	В	Α	С	Α	ON	5	
3	ON	Α	Α	С	Α	ON	3	
4	ON	Α	Α	С	Α	ON	5	
5	ON	В	В	С	D	ON	11	
6	OFF	Α	С	С	В	ON	12 – 11	
7	OFF	Α	Α	В	С	OFF	7 – 8	
8	OFF	Α	Α	Α	Α	OFF	8	
9	ON	Α	Α	С	Α	ON	12	
10	ON	Α	Α	С	Α	ON	11	

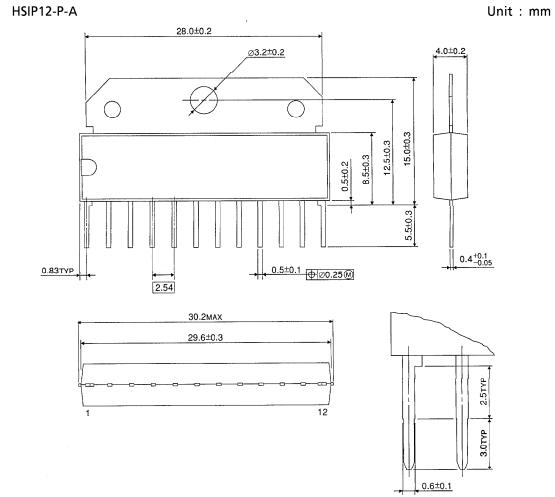
TEST CIRCUIT



APPLICATION CIRCUIT



OUTLINE DRAWING



Weight: 3.2g (Typ.)