# DATA SHEET

Part No.	AN15525A	
Package Code No.	T0220 - 7A	

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AN15525A Panasonic

# AN15525A

# Silicon Monolithic Bipolar IC

#### Overview

AN15525A are ICs for CRT vertical deflection output. AN15525A can directly drive a deflection coil with saw wave output from a signal processing IC.

With its maximum output current of 2 A[p-p], AN15525A are suitable for the use of driving of 21 inch to 29 inch monitors.

#### Features

- Vertical output circuit
- Built-in pump up circuit
- Built-in thermal protection circuit
- Absolute maximum rating 80 V
- Maximum output current 2 A[p-p]

#### Applications

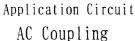
- CRT vertical output
- TV sets and displays

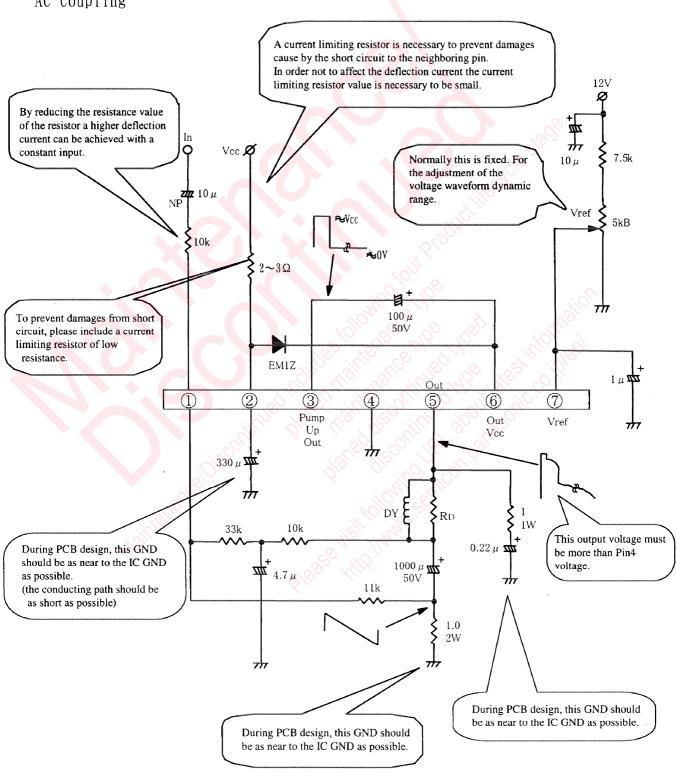
#### ■ Package

• T0220 - 7pin plastic package with Fin

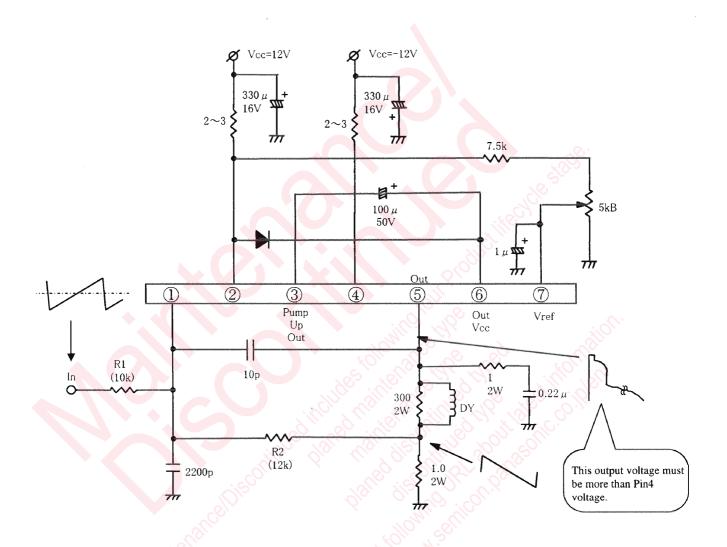
#### ■ Application Circuit

• AC Coupling



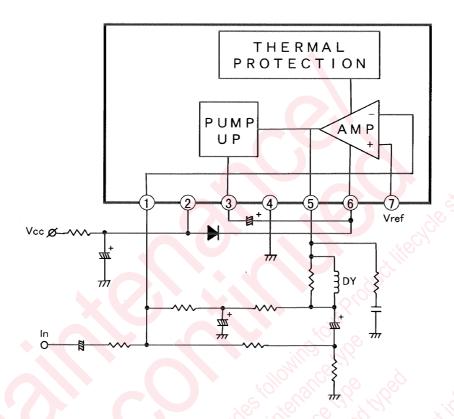


- Application Circuit (continued)
  - DC Coupling



In order to get required gain, it is necessary to adjust the R1 and R2.

### ■ Block Diagram



## ■ Pin Descriptions

Pin No.	Pin name
1	Inverting input
2	Power supply
3.0	Pump - up output
4	GND
5	Vertical output
6	Vertical output power supply
7	Non - inverting input

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#### ■ Absolute Maximum Ratings

No.	Parameter	Symbol	Rating	Unit	Note
1	Storage temperature	$T_{stg}$	−55 to +150	°C	*1
2	Operating ambient temperature	$T_{opr}$	−20 to +70	°C	*1
3	Operating ambient atmospheric pressure	P <sub>opr</sub>	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Pa	
4	Operating constant gravity	$G_{ m opr}$	9 810	m/S <sup>2</sup>	
5	Operating shock	S <sub>opr</sub>	4 900	m/S <sup>2</sup>	
6	Supply voltage	V <sub>CC2</sub>	35	V	
7	Supply current	$I_{CC2}$	360	mA	
8	Power dissipation	$P_{D}$	1.5	W	*2
9	Circuit voltage	V <sub>5-4</sub> , V <sub>6-4</sub>	0 80	ŠV	
10	Circuit voltage	V <sub>7-4</sub> , V <sub>1-4</sub>	0 V <sub>2-4</sub>	V	
11	Circuit current	$I_5, I_3$	-1.5 1.5	A[0-p]	

Note) \*1: Except for the operating ambient temperature and storage temperature, all ratings are for Ta = 25°C

#### ■ Operating Supply Voltage Range

Operating supply voltage range	V <sub>CC2</sub>	12 V to 30 V
Deflection output current	$I_{5[p-p]}$	to 2.0 A[p-p]

<sup>\*2 :</sup> The power dissipation shall be at  $Ta = 70^{\circ}C$  in free air, without heat sink. (refer to sheet no. 12)

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