

DATA SHEET

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

SEMICONDUCTOR COMPANY
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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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

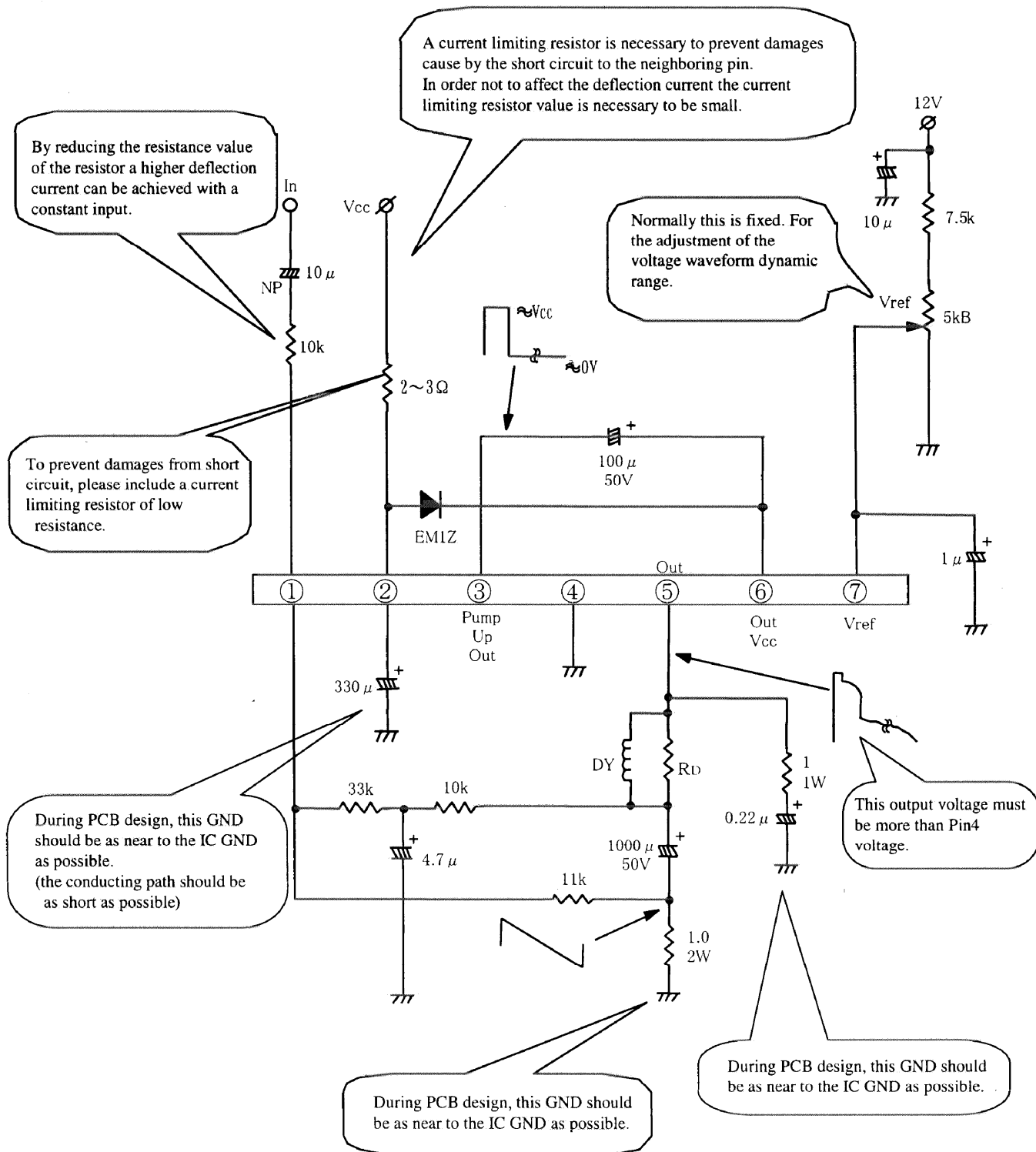
- T0220 - 7pin plastic package with Fin

Application Circuit

• AC Coupling

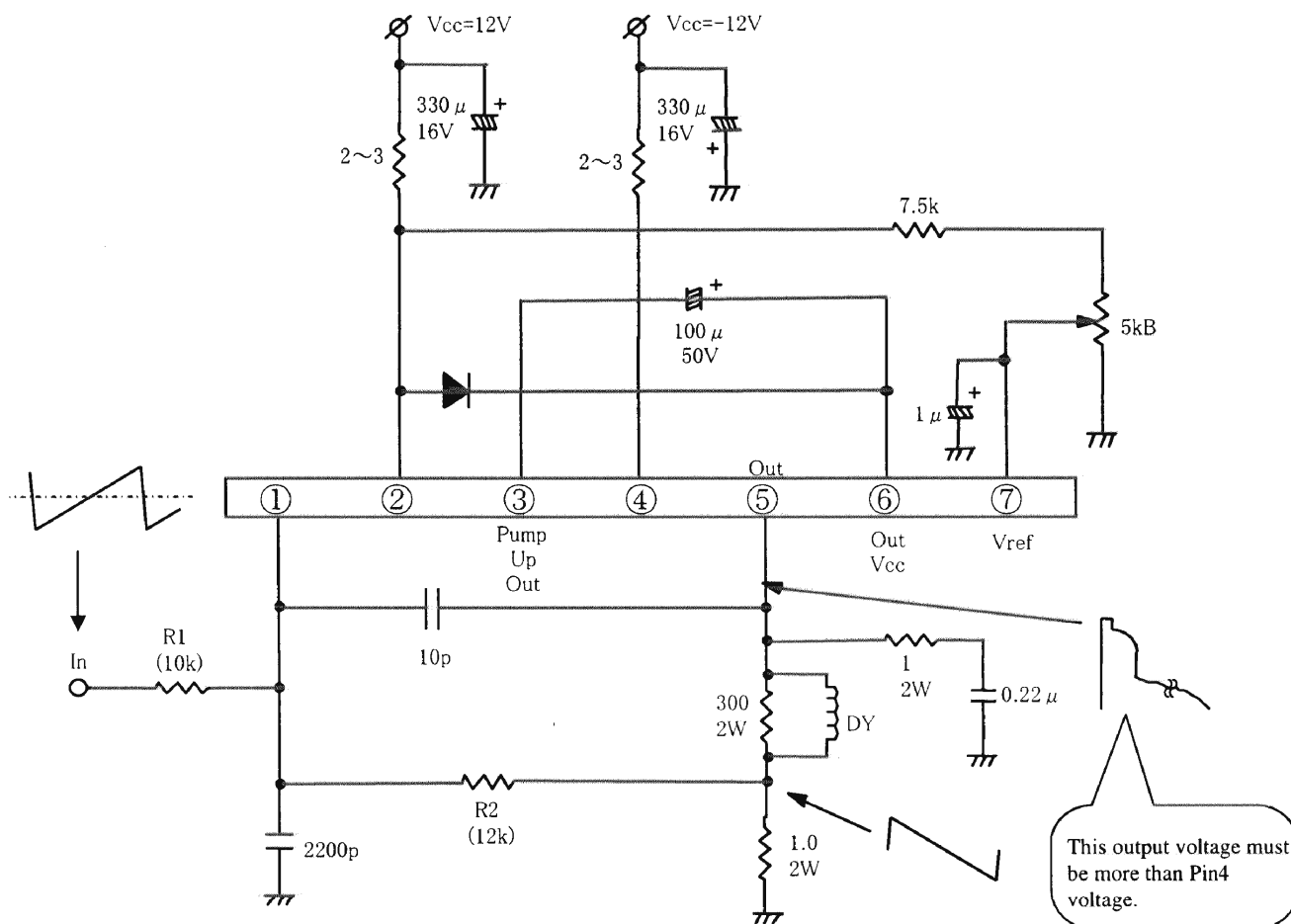
Application Circuit

AC Coupling



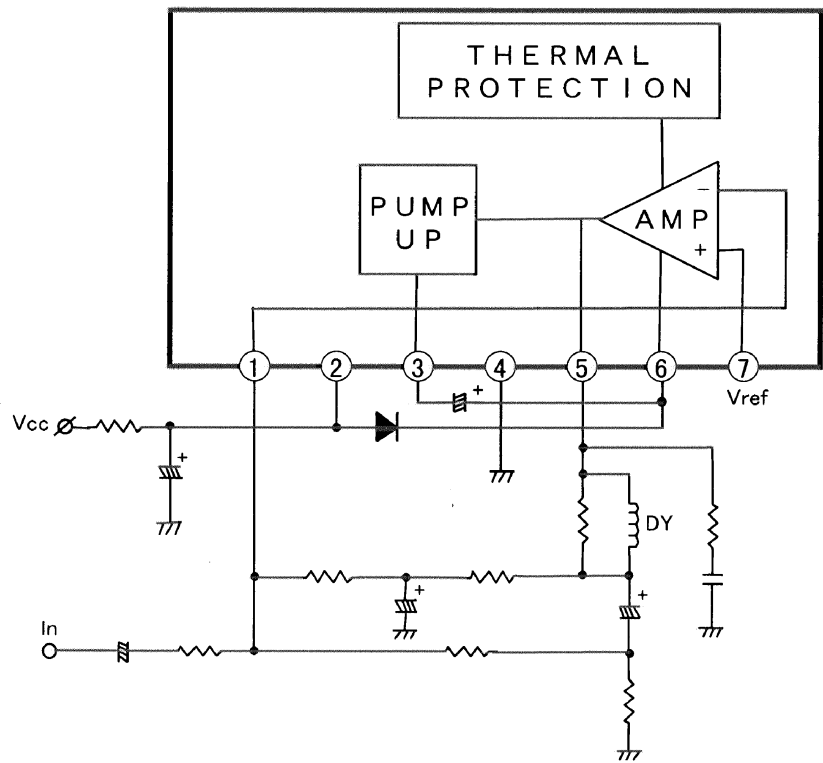
Application Circuit (continued)

- 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	Pump - up output
4	GND
5	Vertical output
6	Vertical output power supply
7	Non - inverting input

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_{opr}	$1.013 \times 10^5 \pm 0.61 \times 10^5$		Pa	
4	Operating constant gravity	G_{opr}	9 810		m/S ²	
5	Operating shock	S_{opr}	4 900		m/S ²	
6	Supply voltage	V_{CC2}	35		V	
7	Supply current	I_{CC2}	360		mA	
8	Power dissipation	P_{D}	1.5		W	*2
9	Circuit voltage	V_{5-4}, V_{6-4}	0	80	V	
10	Circuit voltage	V_{7-4}, V_{1-4}	0	V_{2-4}	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 $T_a = 25^\circ\text{C}$

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

Operating Supply Voltage Range

Operating supply voltage range	V_{CC2}	12 V to 30 V
Deflection output current	$I_{5[\text{p-p}]}$	to 2.0 A[p-p]

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