

# 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

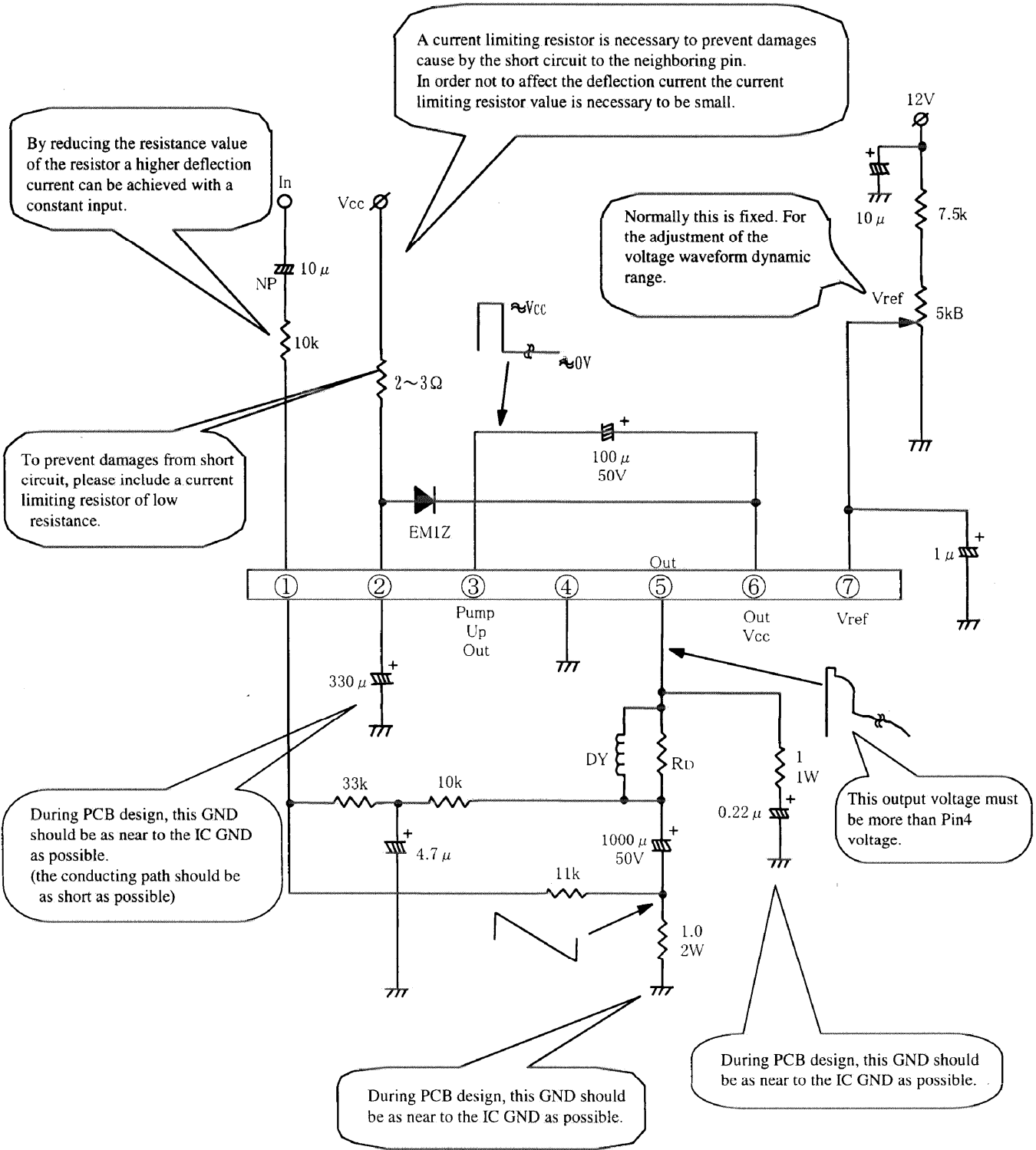
- CRT vertical output
- TV sets and displays

### ■ Package

- T0220 - 7pin plastic package with Fin

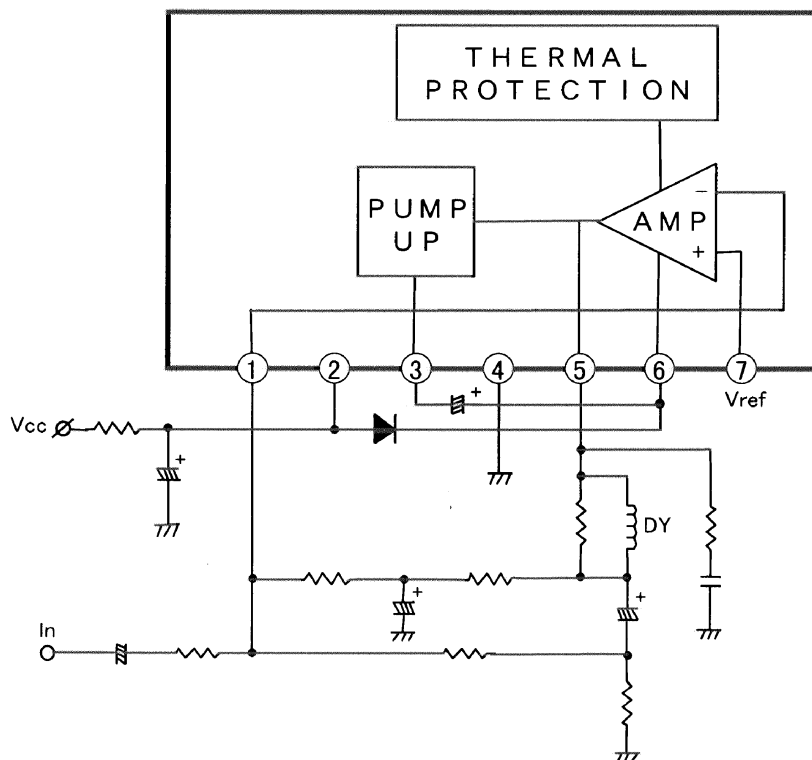
■ Application Circuit  
• AC Coupling

Application Circuit  
AC Coupling





### ■ 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 <sup>2</sup>	
5	Operating shock	$S_{opr}$	4 900		m/S <sup>2</sup>	
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	$I_{5[p-p]}$	to 2.0 A[p-p]

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