DATA SHEET

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

SEMICONDUCTOR COMPANY MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Contents

Overview	3
■ Features	3
Applications	3
■ Package	3
Application Circuit	4
■ Block Diagram	6
■ Pin Descriptions	6
■ Absolute Maximum Ratings	7
■ Operating Supply Voltage Range	7

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

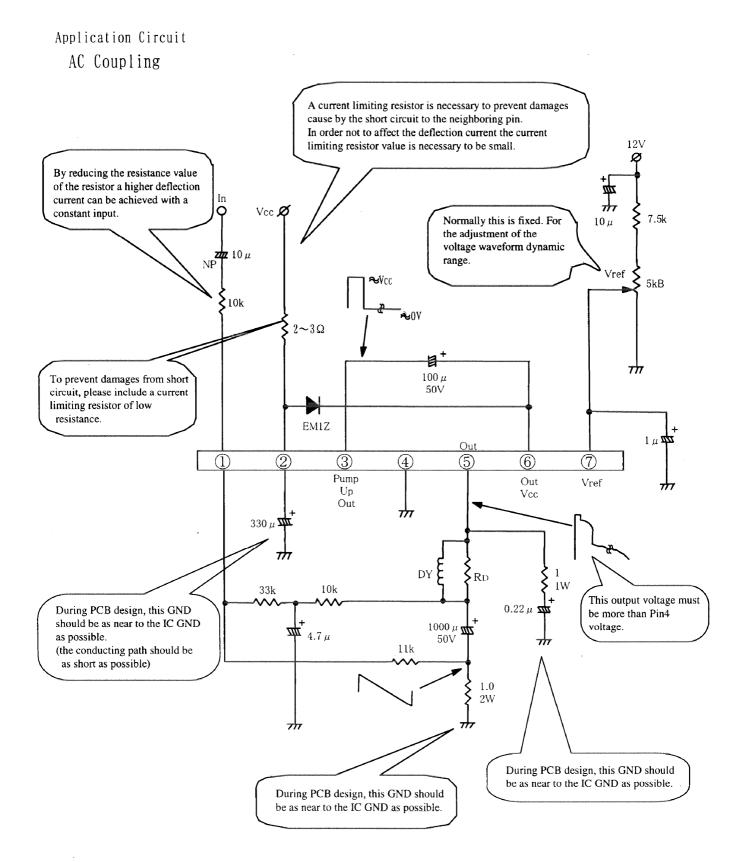
- CRT vertical output
- TV sets and displays

Package

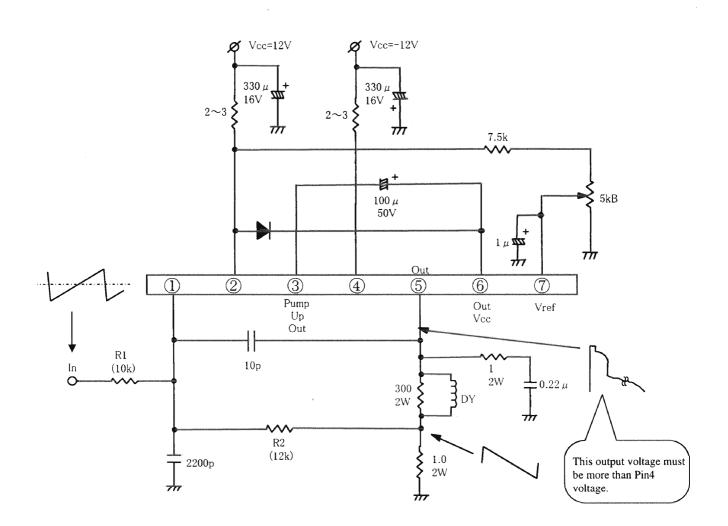
• T0220 - 7pin plastic package with Fin

Application Circuit

• AC Coupling

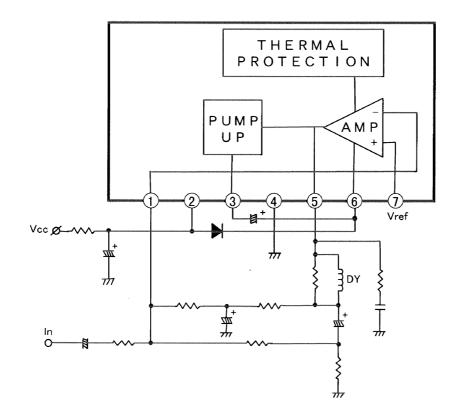


- Application Circuit (continued)
 - DC Coupling



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

AN15525A

■ 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 Ta = 25°C

*2: The power dissipation shall be at Ta = 70°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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