

# DATA SHEET

Part No.	AN15866A
Package Code No.	QFH080-P-1420H

SEMICONDUCTOR COMPANY  
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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# AN15866A

## AV Switch IC

### ■ Features

- Video switch with I<sup>2</sup>C bus

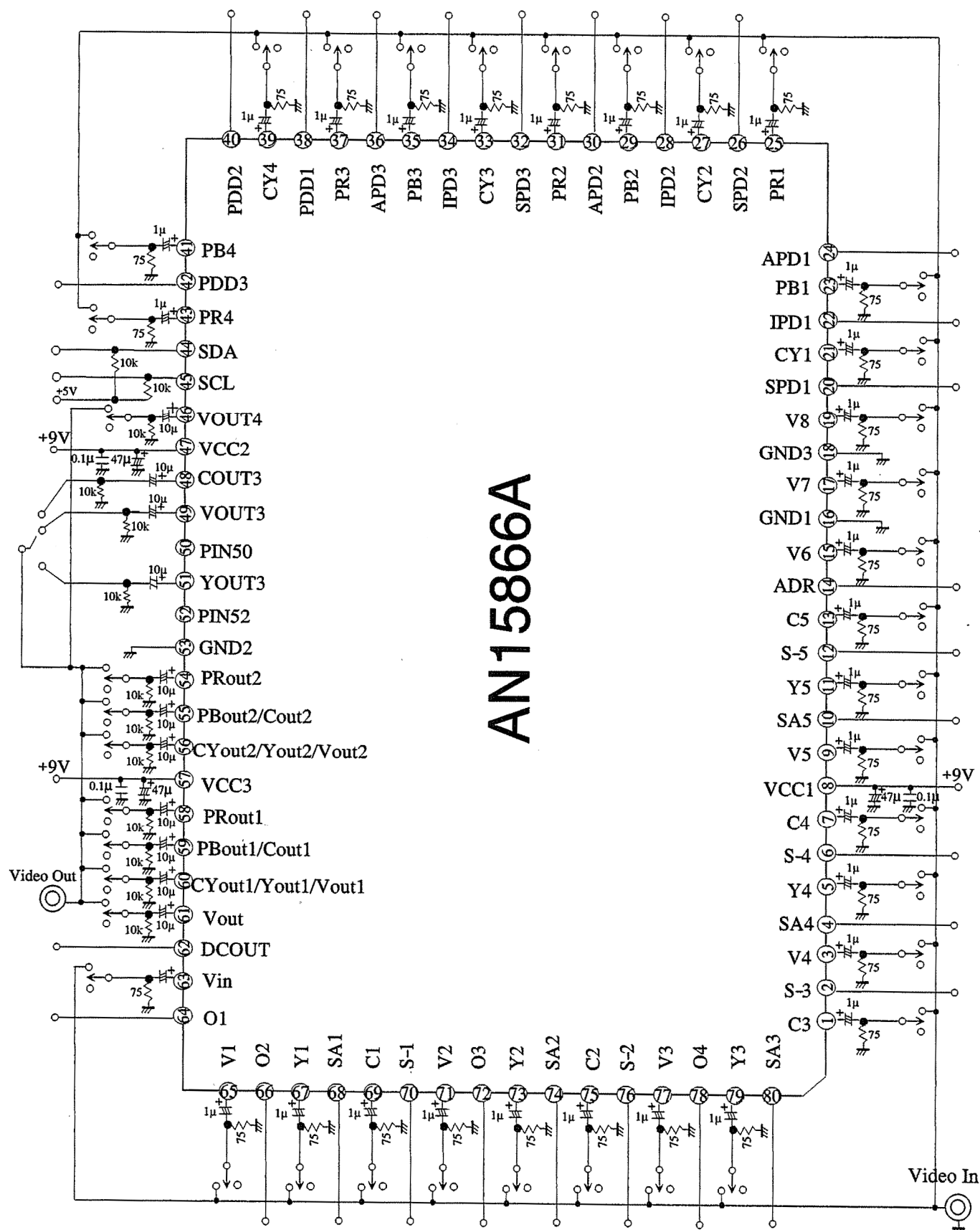
### ■ Application

- Color TV

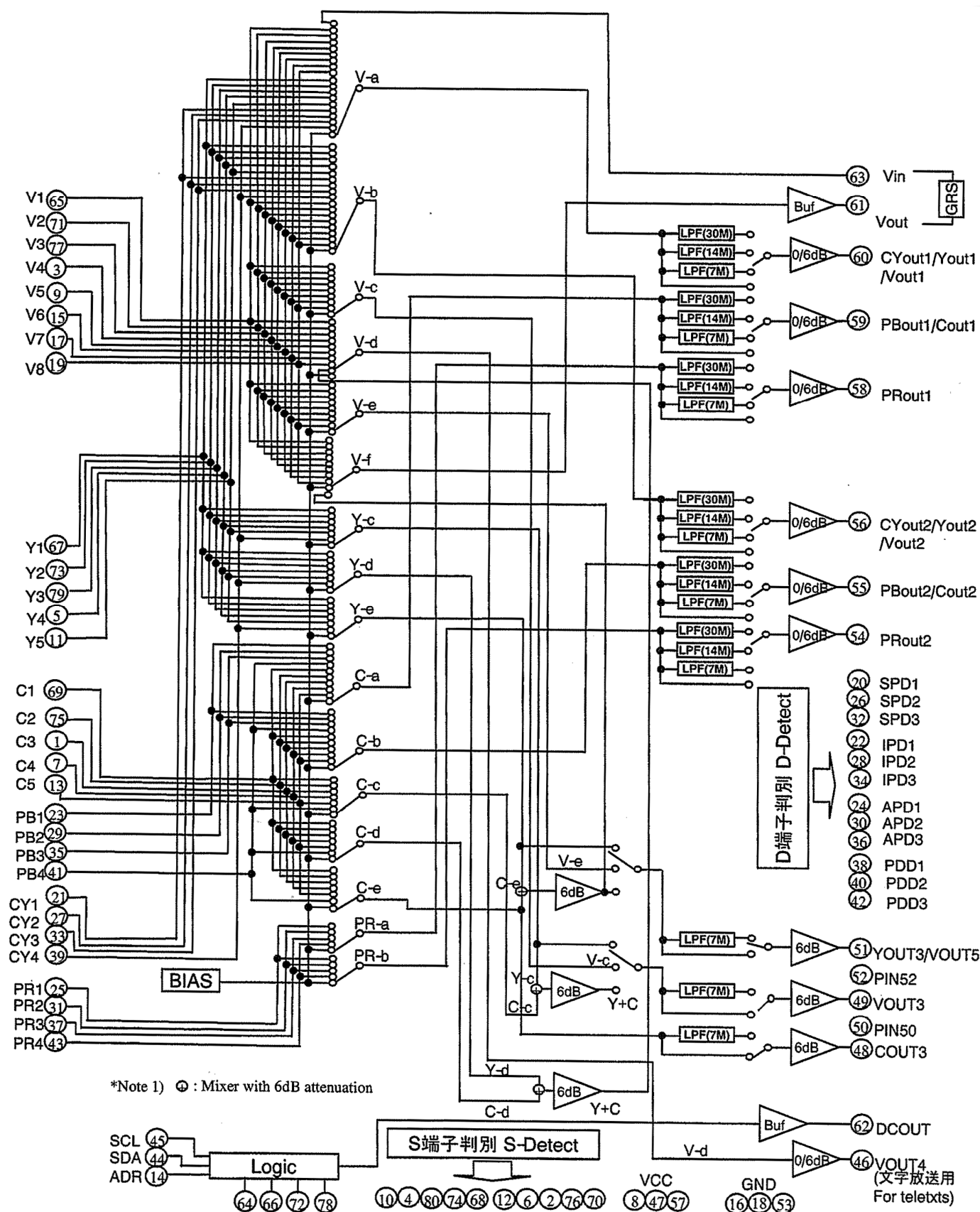
### ■ Package

- Quad 80-pin plastic package (QFH type)

## ■ Application Circuit Example



### ■ Block Diagram



## ■ Pin Descriptions

Pin No.	Description	Pin No.	Description	Pin No.	Description
1	C3	28	IPD2	55	PB-out2 / C-out2
2	S3	29	PB2	56	CY-out2 / Y-out2 / V-out2
3	V4	30	APD2	57	V <sub>CC3</sub>
4	SA4	31	PR2	58	PR-out1
5	Y4	32	SPD3	59	PB-out1 / C-out1
6	S4	33	CY3	60	CY-out1 / Y-out1 / V-out1
7	C4	34	IPD3	61	V <sub>OUT</sub>
8	V <sub>CC1</sub>	35	PB3	62	DC-out
9	V5	36	APD3	63	V <sub>IN</sub>
10	SA5	37	PR3	64	O1
11	Y5	38	PDD1	65	V1
12	S5	39	CY4	66	O2
13	C5	40	PDD2	67	Y1
14	ADR	41	PB4	68	SA1
15	V6	42	PDD3	69	C1
16	GND1	43	PR4	70	S1
17	V7	44	SDA	71	V2
18	GND3	45	SCL	72	O3
19	V8	46	V-out4	73	Y2
20	SPD1	47	V <sub>CC2</sub>	74	SA2
21	CY1	48	C-out3	75	C2
22	IPD1	49	V-out3	76	S2
23	PB1	50	Pin 50	77	V3
24	APD1	51	Y-out3	78	O4
25	PR1	52	Pin 52	79	Y3
26	SPD2	53	GND2	80	SA3
27	CY2	54	PR-out2		

### ■ Absolute Maximum Ratings

No.	Parameter	Symbol	Rating	Unit	Note
1	Supply voltage	$V_{CC}$	12	V	—
2	Supply current	$I_{CC}$	—	mA	—
3	Power dissipation	$P_D$	725	mW	*1
4	Storage temperature	$T_{stg}$	−55 to +125	°C	*2
5	Operating ambient temperature	$T_{opr}$	−20 to +75	°C	*2
6	Operating ambient atmospheric pressure	$P_{opr}$	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Pa	—
7	Operating constant gravity	$G_{opr}$	9 810	m/s <sup>2</sup>	—
8	Operating shock	$S_{opr}$	4 900	m/s <sup>2</sup>	—

Note) \*1: The above power dissipation shows the package power dissipation for this IC mounted on PCB at  $T_a = 75^\circ\text{C}$ .

\*2: Except for the storage temperature and operating ambient temperature, all ratings are for  $T_a = 25^\circ\text{C}$ .

### ■ Operating Supply Voltage Range

Parameter	Symbol	Range	Unit	Note
Operating Supply Voltage Range	$V_{CC}$	8.5 to 9.5	V	—

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