

DATA SHEET

Part No.	AN15851B
Package Code No.	SSOP036-P-0450A

SEMICONDUCTOR COMPANY
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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AN15851B

AV Switch IC

■ Features

- 4-input AV switch IC with RGB –YUV converter

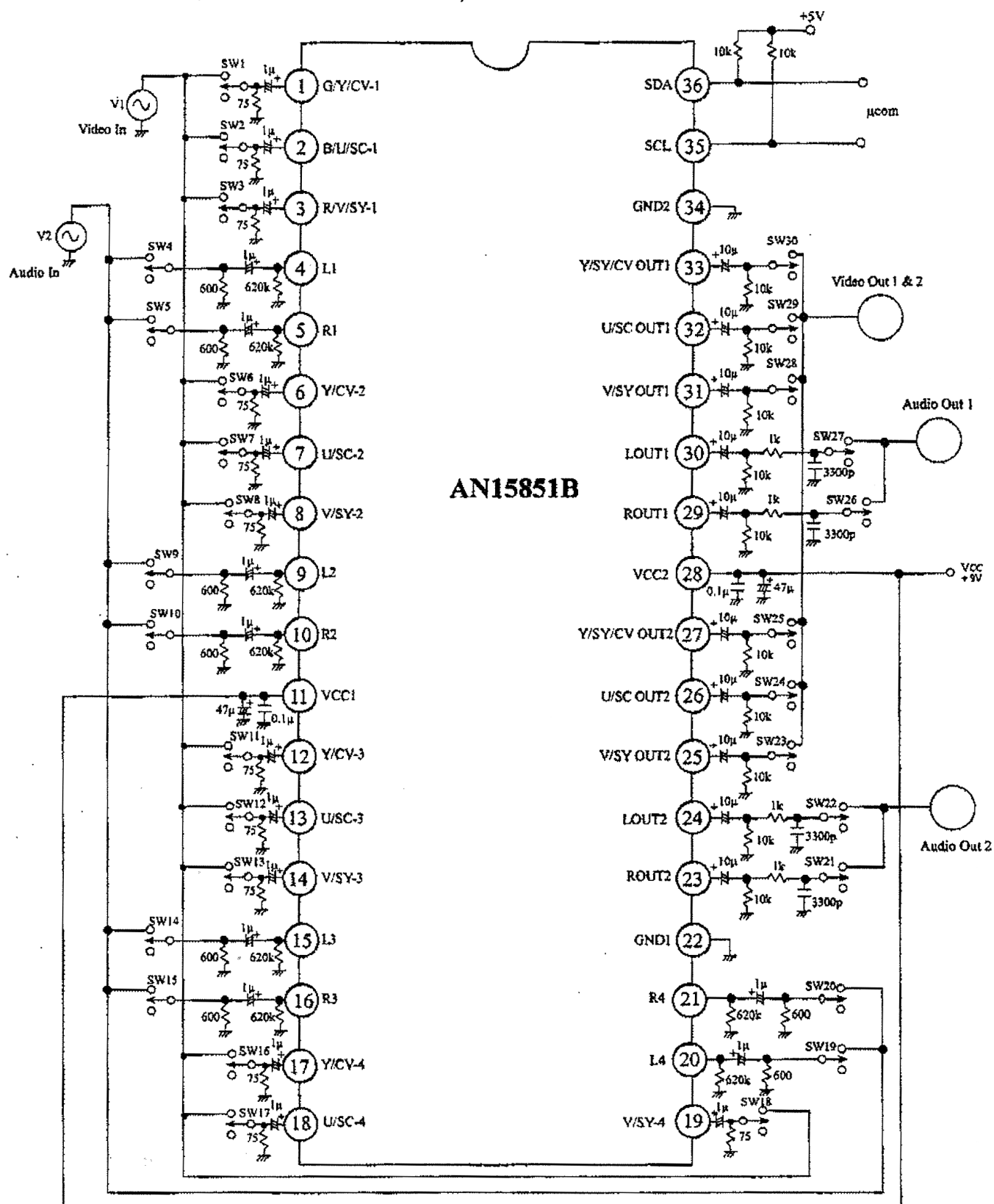
■ Application

- Color TV

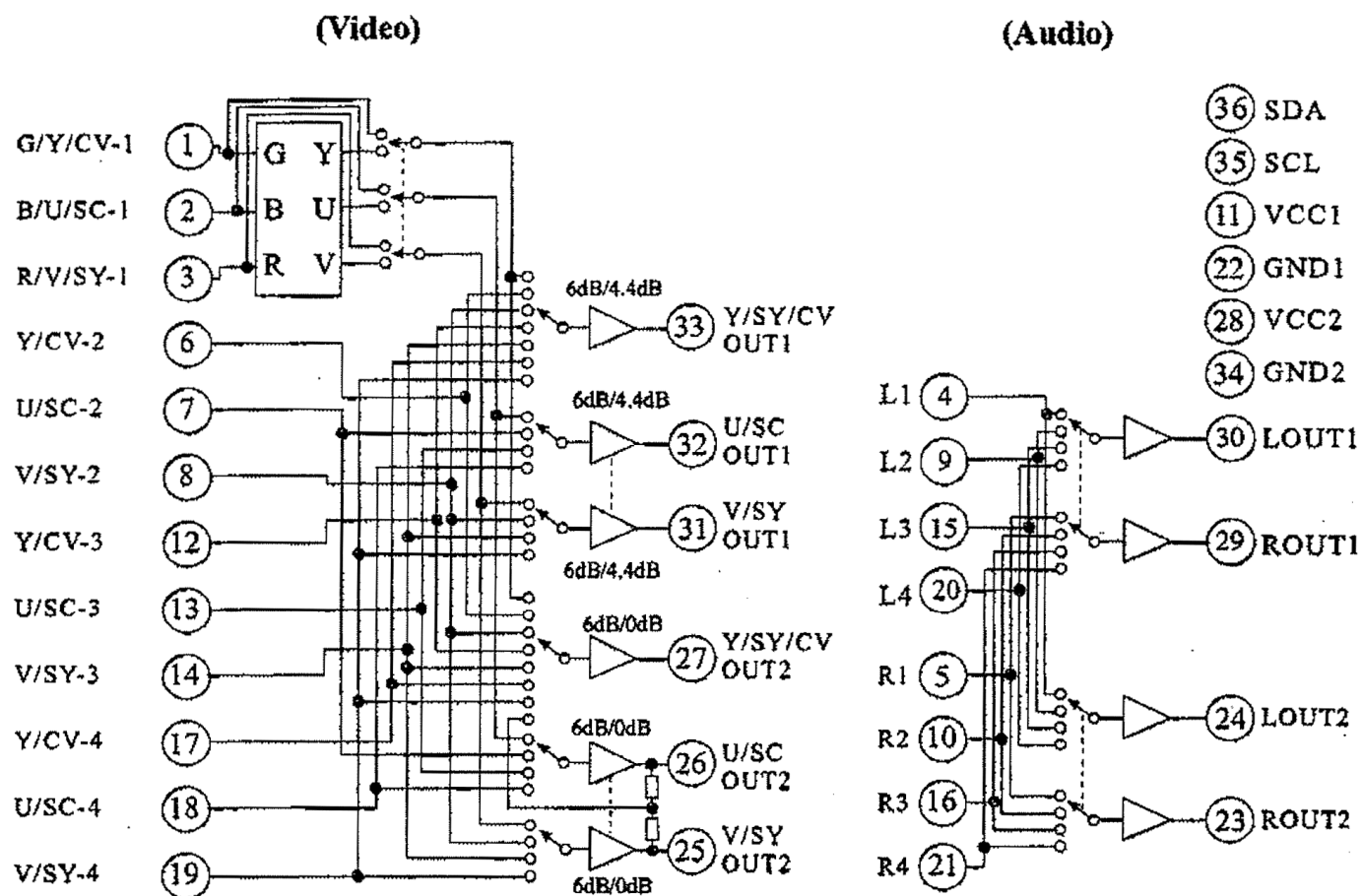
■ Package

- 36-USO pin plastic package (USONF-36D)

■ Application Circuit Example



■ Block Diagram



■ Pin Descriptions

Pin No.	Description	Pin No.	Description
1	G, Y, CV-in1	19	V, SY-in4
2	B, U, SC-in1	20	L-in4
3	R, V, SY-in1	21	R-in4
4	L-in1	22	GND1
5	R-in1	23	R-out2
6	Y, CV-in2	24	L-out2
7	U, SC-in2	25	V, SY-out2
8	V, SY-in2	26	U, SC-out2
9	L-in2	27	Y, SY, CV-out2
10	R-in2	28	V _{CC2}
11	V _{CC1}	29	R-out1
12	Y, CV-in3	30	L-out1
13	U, SC-in3	31	V, SY-out1
14	V, SY-in3	32	U, SC-out1
15	L-in3	33	Y, SY, CV-out1
16	R-in3	34	GND2
17	Y, CV-in4	35	SCL
18	U, SC-in4	36	SDA

■ Absolute Maximum Ratings

No.	Parameter	Symbol	Rating	Unit	Note
1	Supply voltage	V_{CC}	14	V	—
2	Supply current	I_{CC}	60	mA	—
3	Power dissipation	P_D	840	mW	—
4	Storage temperature	T_{stg}	−55 to +150	°C	*1
5	Operating ambient temperature	T_{opr}	−20 to +70	°C	*1
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 ²	—
8	Operating shock	S_{opr}	4 900	m/s ²	—

Note) 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}	8.1 to 9.9	V	—

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