AN6364S

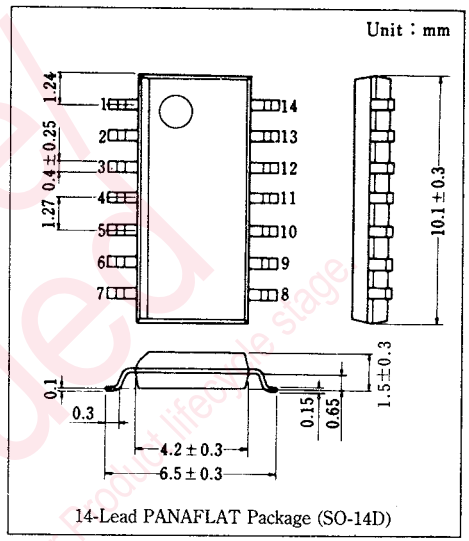
PAL/SECAM Signal Discriminator

■ Outline

The AN6364S is provided with the function which discriminates the feature of the burst signal of standard TV signals and makes output at "H" level if SECAM, and at "L" level if PAL.

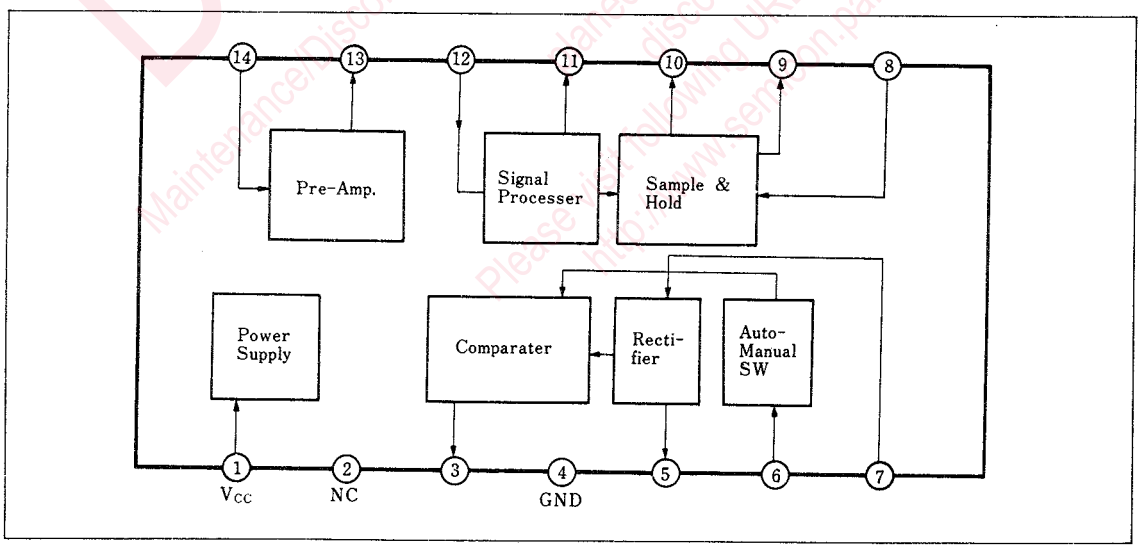
■ Features

- With a sample & hold circuit, it has good discrimination ability
- Output level is TTL compatible
- Auto – Manual switching function



14-Lead PANAFLAT Package (SO-14D)

■ Block Diagram



■ Pin

Pin No.	Pin Name	Pin No.	Pin Name
1	V_{CC}	8	B. G. P.
2	NC	9	C_2
3	V_O	10	S. H.
4	GND	11	LC
5	V_{INT}	12	F_O
6	SW	13	F_I
7	C_1	14	V_I

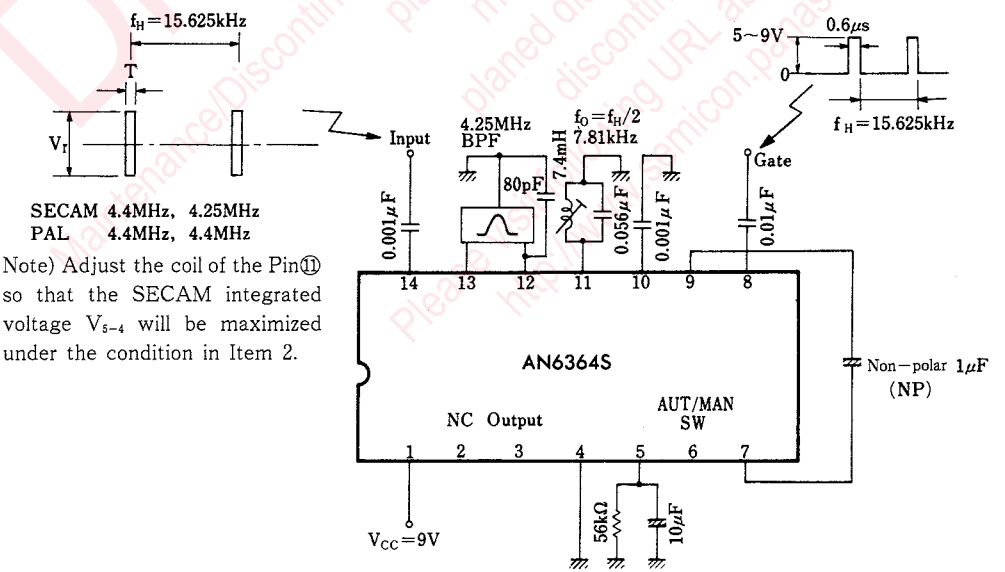
■ Absolute Maximum Ratings (Ta=25℃)

Item	Symbol	Rating	Unit
Supply voltage	V_{CC}	14.4	V
Power dissipation	P_D	210	mW
Operating ambient temperature	T_{opr}	−20～+70	℃
Storage temperature	T_{stg}	−40～+125	℃

■ Electrical Characteristics (V_{CC}= 9 V, Ta=25℃)

Item	Symbol	Test Circuit	Condition	min.	typ.	max.	Unit
SECAM integrated voltage	V_{5-4}	1	V_I=0.5V_{P-P}, t=3.5±0.2μs	4.0		8.0	V
SECAM integrated voltage	V_{5-4}	1	V_I = 1.0 V_{P-P}, t = 3.5±0.2 μs	4.0		8.0	V
Circuit current	I_{CC}	1		10		18	mA
PAL integrated voltage	V_{5-4}	1		0.1		1.0	V
Circuit current	I_{CC}	1		10		20	mA
SECAM output voltage	V_{OH}	2	I_{OH}=−5mA	2.4		9.0	V
PAL output voltage	V_{OL}	3	I_{OL}=20mA			0.4	V

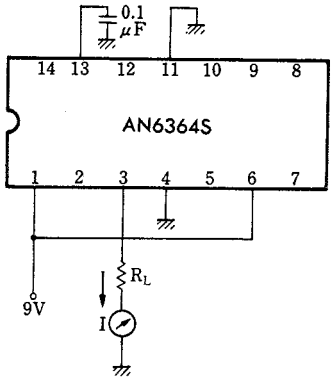
Test Circuit 1 (V_{5-4}, I_{CC})



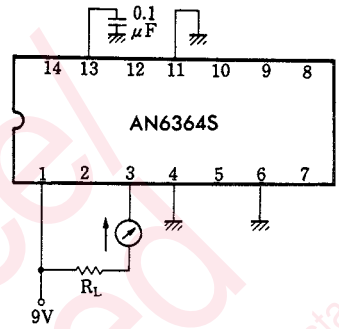
SECAM 4.4MHz, 4.25MHz
PAL 4.4MHz, 4.4MHz

Note) Adjust the coil of the Pin⑪ so that the SECAM integrated voltage V_{5-4} will be maximized under the condition in Item 2.

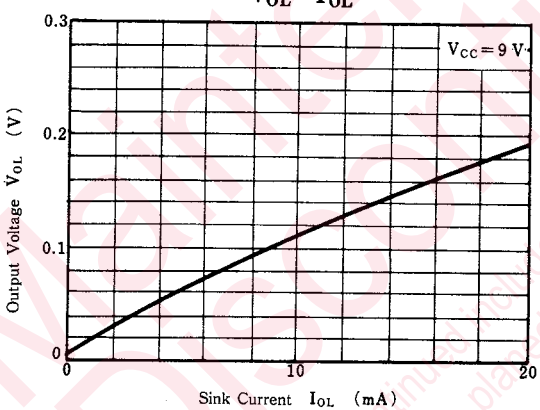
Test Circuit 2 (V_{OH})



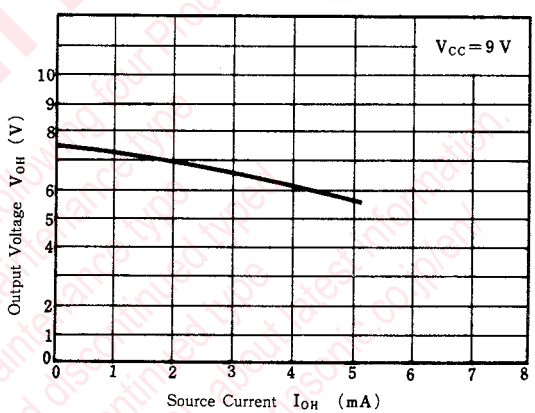
Test Circuit 3 (V_{OL})



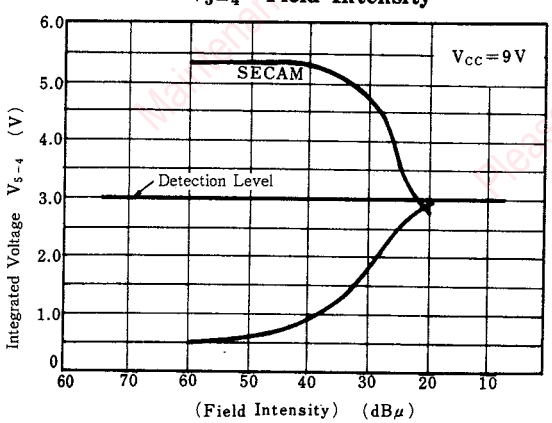
$V_{OL} - I_{OL}$



$V_{OH} - I_{OH}$



V_{5-4} – Field Intensity



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