

# AN6364S

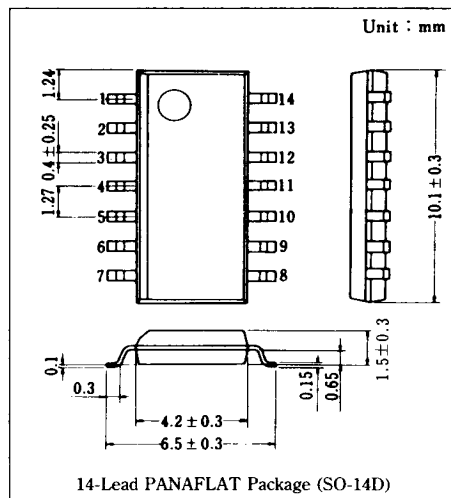
## PAL/SECAM Signal Discriminator

### ■ Outline

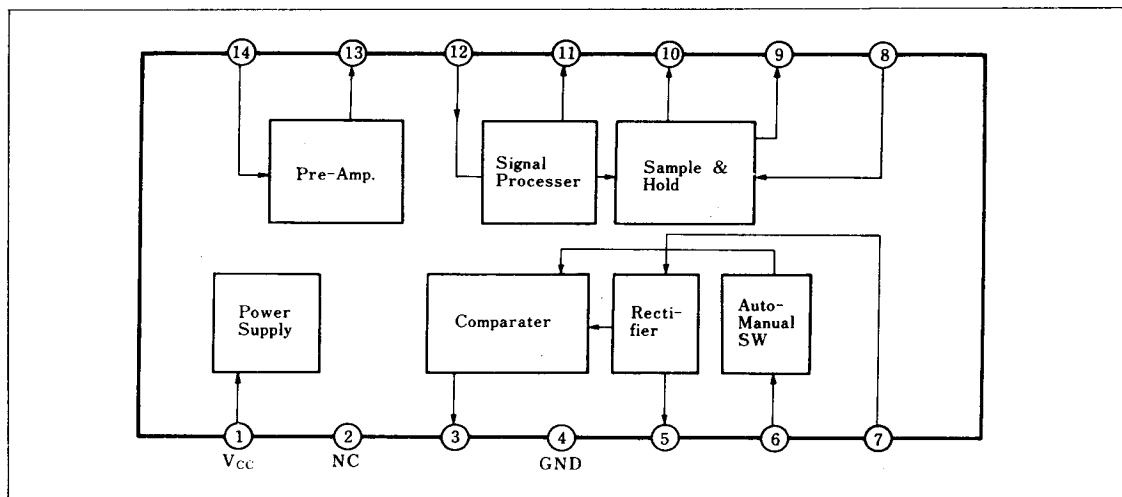
The AN6364S is provided with the function which discriminates the feature of the burst signal of standard TV signals and makes output at "H" level if SECAM, and at "L" level if PAL.

### ■ Features

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



### ■ Block Diagram

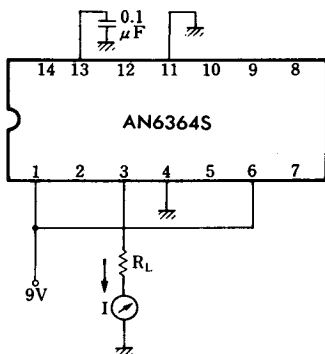


| Pin No. | Pin Name         | Pin No. | Pin Name       |
|---------|------------------|---------|----------------|
| 1       | V <sub>CC</sub>  | 8       | B. G. P.       |
| 2       | NC               | 9       | C <sub>2</sub> |
| 3       | V <sub>O</sub>   | 10      | S. H.          |
| 4       | GND              | 11      | LC             |
| 5       | V <sub>INT</sub> | 12      | F <sub>O</sub> |
| 6       | SW               | 13      | F <sub>I</sub> |
| 7       | C <sub>I</sub>   | 14      | V <sub>I</sub> |

| Item                          | Symbol           | Rating   | Unit |
|-------------------------------|------------------|----------|------|
| Supply voltage                | V <sub>CC</sub>  | 14.4     | V    |
| Power dissipation             | P <sub>D</sub>   | 210      | mW   |
| Operating ambient temperature | T <sub>opr</sub> | -20~+70  | °C   |
| Storage temperature           | T <sub>stg</sub> | -40~+125 | °C   |

| Item                     | Symbol           | Test Circuit | Condition                                         | min. | typ. | max. | Unit |
|--------------------------|------------------|--------------|---------------------------------------------------|------|------|------|------|
| SECAM integrated voltage | V <sub>5-4</sub> | 1            | V <sub>I</sub> =0.5V <sub>P-P</sub> , t=3.5±0.2μs | 4.0  |      | 8.0  | V    |
| SECAM integrated voltage | V <sub>5-4</sub> | 1            | V <sub>I</sub> =1.0V <sub>P-P</sub> , t=3.5±0.2μs | 4.0  |      | 8.0  | V    |
| Circuit current          | I <sub>CC</sub>  | 1            |                                                   | 10   |      | 18   | mA   |
| PAL integrated voltage   | V <sub>5-4</sub> | 1            |                                                   | 0.1  |      | 1.0  | V    |
| Circuit current          | I <sub>CC</sub>  | 1            |                                                   | 10   |      | 20   | mA   |
| SECAM output voltage     | V <sub>OH</sub>  | 2            | I <sub>OH</sub> =-5mA                             | 2.4  |      | 9.0  | V    |
| PAL output voltage       | V <sub>OL</sub>  | 3            | I <sub>OL</sub> =20mA                             |      |      | 0.4  | V    |

Figure 1: Pin 11 Tuning Circuit. The diagram shows the internal circuit of the AN6364S IC, including a 4.25MHz BPF, a 7.4mH coil, and various capacitors. It also shows the external components connected to pins 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, and 1. A timing diagram for the 5-9V input is shown at the top right.

Test Circuit 2 ( $V_{OH}$ )Test Circuit 3 ( $V_{OL}$ )