# DATA SHEET

| Part No.         | AN13300A            |
|------------------|---------------------|
| Package Code No. | *SOP022 - P - 0375C |

SEMICONDUCTOR COMPANY MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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# AN13300A Silicon Monolithic Bipolar IC

#### Features

• Video signal input - output interface for DSP

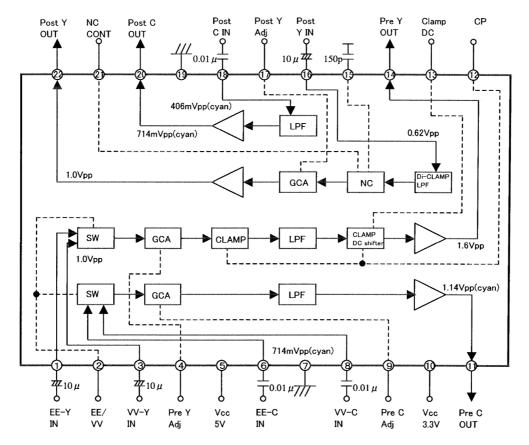
#### Applications

• VCR ( Digital Video equipment )

#### Package

• Dill - 22Pin plastic package SO Type

### Block Diagram



#### ■Pin Descriptions

| Pin No. | Function                   | Impedance | Pin No. | Function        | Impedance |
|---------|----------------------------|-----------|---------|-----------------|-----------|
| 1       | EE - Y IN                  | 30k       | 12      | Clamp Pulse IN  | 210k      |
| 2       | EE / VV SW                 | 210k      | 13      | Clamp DC        | 65k       |
| 3       | VV - Y IN                  | 30k       | 14      | Pre - Y OUT     | E. F.     |
| 4       | Pre - Y Adj.               | 64k       | 15      | N. C. Capacitor | 500k      |
| 5       | V <sub>CC1</sub> ( 5V )    |           | 16      | Post - Y IN     | 26k       |
| 6       | EE - C IN                  | 30k       | 17      | Post - Y Adj.   | 65k       |
| 7       | GND                        |           | 18      | Post - C IN     | 21k       |
| 8       | VV - C IN                  | 10k       | 19      | GND             |           |
| 9       | Pre - C Adj.               | 62k       | 20      | Post - C OUT    | E. F.     |
| 10      | V <sub>CC2</sub> ( 3.3 V ) |           | 21      | N. C. Control   | 65k       |
| 11      | Pre - C OUT                | E. F.     | 22      | Post - Y OUT    | E. F.     |

## AN13300A

# Panasonic

#### ■ Absolute Maximum Ratings

| No. | Parameter                              | Symbol                      | Rating   |     | Unit             | Note |
|-----|--|-----------------------------|--|-----|------------------|------|
| 1   | Storage temperature                    | T <sub>stg</sub>            | $T_{stg}$ -55 to +   |     | °C               | *    |
| 2   | Operating ambient temperature          | T <sub>opr</sub> -20 to +70 |  | °C  | *                |      |
| 3   | Operating ambient atmospheric pressure | P <sub>opr</sub>            | $P_{opr}$ 1.013 × 10 <sup>5</sup> ± 0.61 × 10 <sup>5</sup> |     | Pa               |      |
| 4   | Operating constant gravity             | G <sub>opr</sub>            | 9 810  |     | m/S <sup>2</sup> |      |
| 5   | Operating shock                        | S <sub>opr</sub>            | 4 900  |     | m/S <sup>2</sup> |      |
| 6   | Sumply voltage                         | V <sub>CC</sub>             | V <sub>CC1</sub>   | 5.5 | - V              |      |
| 6   | Supply voltage                         |                             | V <sub>CC2</sub>   | 3.6 |                  |      |
| 7   | 7 Supply current                       | I <sub>CC</sub>             | I <sub>CC1</sub>   | 35  | mA               |      |
|     |  |                             | I <sub>CC2</sub>   | 0.5 |                  |      |
| 8   | Power dissipation                      | P <sub>D</sub>              | 195  |     | W                |      |

Note) \*: Expect for the operating ambient temperature and storage temperature , all ratings are for  $Ta = 25^{\circ}C$ .

## Operating Supply Voltage Range

| Operating supply voltage range | V <sub>CC1</sub> | 4.75 V to 5.25 V |
|--------------------------------|------------------|------------------|
|                                | V <sub>CC2</sub> | 3.1 V to 3.5 V   |

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