



No.1487B

LA7808

B/W TV Synchronization, Deflection Circuit

The LA7808 contains a sync separator.

Maximum Ratings at Ta=25°C

| | | | |
|-----------------------------|-------|-------------|----|
| Maximum Supply Voltage | V1 | 14.0 | V |
| | V7 | 14.0 | V |
| Allowable Power Dissipation | Pdmax | 300 | mW |
| Operating Temperature | Topr | -20 to +85 | °C |
| Storage Temperature | Tstg | -55 to +125 | °C |

Recommended Operating Condition at $T_a=25^{\circ}\text{C}$

| | | | |
|----------------------------|----|------|---|
| Recommended Supply Voltage | V1 | 12.0 | V |
| | V7 | 12.0 | V |

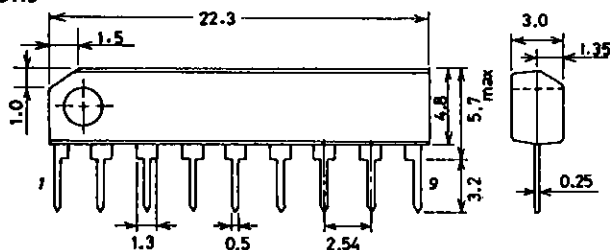
Operating Characteristics at $T_a=25^{\circ}\text{C}$, $V_1=V_7=12\text{V}$

| | | min | typ | max | units |
|--|---|-------|-----|------|-------|
| V _{CC1} Current Dissipation | I _{CC1} | 6.0 | | 11.0 | mA |
| V _{CC2} Current Dissipation | I _{CC7} | 3.8 | | 7.1 | mA |
| Sync Separation Input DC Level | | 9.0 | | 9.6 | V |
| Sync Signal Peak Value | | 11.0 | | | V |
| Horizontal DC Loop Gain | + sign at V ₂ =5V, - sign at V ₂ =1V | ±240 | | ±400 | μA |
| Horizontal Free-Running Frequency | f _H f _H center=15.750kHz | -750 | | 750 | Hz |
| Horizontal Oscillation Start Voltage | | | | 4.0 | V |
| Increased/Reduced Voltage | V ₁ =12±1V | -50 | | 50 | Hz/V |
| Characteristic of Horizontal Frequency | (15.750kHz at 12V) | | | | |
| Temperature Characteristic of Horizontal Frequency | T _a =-10 to +60°C | -2.20 | | 1.22 | Hz/°C |
| Horizontal Frequency Warm-up Drift | 5s to 30min. after switch ON | -90 | | 50 | Hz |
| Horizontal Output Pulse Width | Positive pulse period | 21.5 | | 26.5 | μs |
| Horizontal Output Drive Current | | 4.2 | | 7.8 | mA |

Package Dimensions

(unit : mm)

3017C



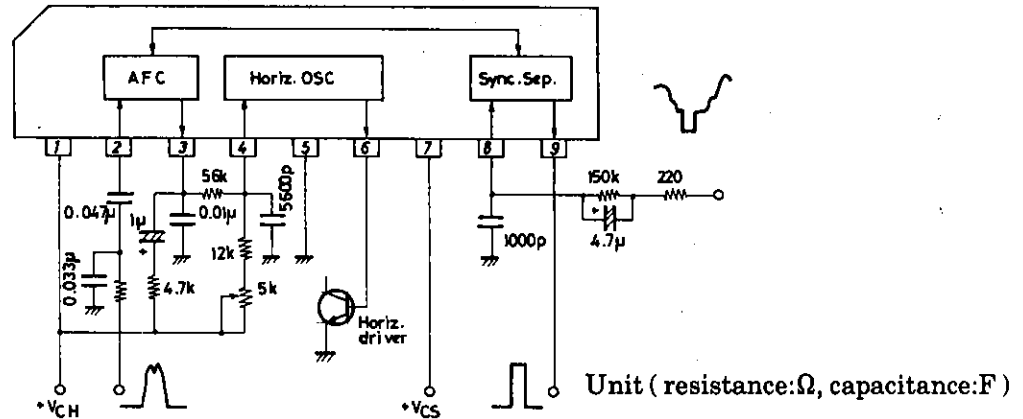
SANYO : SIP9

SANYO Electric Co., Ltd. Semiconductor Business Headquarters

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

03095MH/2074KI, TS No.1487-1/2

Sample Application Circuit : Sync, Deflection Circuit



■ No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.

■ Anyone purchasing any products described or contained herein for an above-mentioned use shall:

- ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.

■ Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.