2.7V to 5.5V

0.8mA(Typ)

±1.0LSB

±1.5LSB

±1.0mA

100µs(Min)

10MHz(Max)

-20°C to +85°C



D/A Converters Standard 8bit 4ch · 6ch Type

BH2227FV BH2228FV

General Description

The BH2227FV and BH2228FV ICs are 8bit R-2R-type D/A converters with 4 and 6 channels, respectively. Optimized circuitry allows two output voltages to be supplied (3V/5V). Furthermore, the built-in RESET function ensures that the output voltage at all channels is LOW during power up. A broad power supply voltage range is available (2.7V to 5.5V), providing design flexibility.

Features

- Suitable for 2 independent power sources (3V/5V)
- Built-in RESET function
- High speed output response characteristics
- 3-line serial interface

Applications

DVCs, DSCs, DVDs, CD-Rs, CD-RWs

Key Specifications

- Power Source Voltage Range:
- Current Consumption:
- Differential Non Linearity Error:
- Integral non Linearity Error:
- Output current Performance:
- Settling Time:
- Data Transfer Frequency: Action Temperature Range:

Package

W(Typ) x D(Typ) x H(Max)



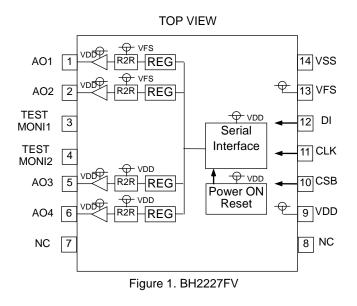
Lineup

| Number of channels | Input method | Data latch method | Pac | kage | Orderable Part Number |
|--------------------|--------------|-------------------|----------|--------------|-----------------------|
| 4ch | 01400 | CSB method | | Deal of 2500 | BH2227FV-E2 |
| 6ch | CMOS | | SSOP-B14 | Reel of 2500 | BH2228FV-E2 |

Pin Descriptions and Block Diagrams

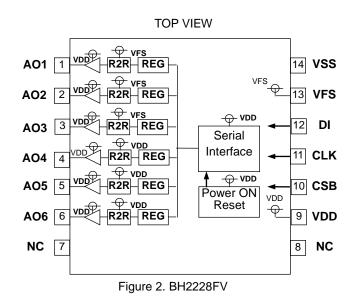
| (| BH2227FV | ') |
|---|----------|----|
| | | |

| Terminal Terminal Name | | Europhie a | | | | |
|------------------------|---------------|---|--|--|--|--|
| Terminal | Terminal Name | Function | | | | |
| 1 | AO1 | Analog output terminal | | | | |
| 2 | AO2 | Analog output terminal | | | | |
| 3 | TESTMONI1 | Test terminal | | | | |
| 4 | TESTMONI2 | (OPEN at normal use) | | | | |
| 5 | AO3 | Analog output terminal | | | | |
| 6 | AO4 | Analog output terminal | | | | |
| 7 | NC | Internally not connected yet | | | | |
| 8 | NC | Internally not connected yet | | | | |
| 9 | VDD | Power source terminal (AO3, 4 full scale voltage use in common) | | | | |
| 10 | CSB | Chip select signal input terminal | | | | |
| 11 | CLK | Serial clock input terminal | | | | |
| 12 | DI | Serial data input terminal | | | | |
| 13 | VFS | AO1,2 full scale Voltage setting terminal | | | | |
| 14 | VSS | Ground terminal | | | | |



(BH2228FV)

| Terminal | Terminal Name | Function |
|----------|---------------|---|
| 1 | AO1 | |
| 2 | AO2 | |
| 3 | AO3 | Analog output terminal |
| 4 | AO4 | Analog output terminal |
| 5 | AO5 | |
| 6 | AO6 | |
| 7 | NC | |
| 8 | NC | Internally not connected yet |
| 9 | VDD | Power source terminal (AO4 to AO6 full scale voltage use in common) |
| 10 | CSB | Chip select signal input terminal |
| 11 | CLK | Serial clock input terminal |
| 12 | DI | Serial data input terminal |
| 13 | VFS | AO1,2,3 full scale Voltage setting terminal |
| 14 | VSS | Ground terminal |



Absolute Maximum Ratings (Ta=25°C)

| Parameter | Symbol | Limit | Unit | Remark |
|---------------------------|-----------------|--------------------------|------|--------|
| Power Source Voltage | V _{DD} | -0.3 to +7.0 | V | - |
| Terminal Voltage | Vin | -0.3 to V _{CC} | V | - |
| Storage Temperature Range | Tstg | -55 to +125 | °C | - |
| Power Dissipation | Pd | 0.40 ^(Note 1) | W | - |

(Note 1) Derated at 4.0mW/°C at Ta>25°C

Caution: Operating the IC over the absolute maximum ratings may damage the IC. The damage can either be a short circuit between pins or an open circuit between pins and the internal circuitry. Therefore, it is important to consider circuit protection measures, such as adding a fuse, in case the IC is operated over the absolute maximum ratings.

Recommended Operating Conditions (Ta=25°C)

| Deveryor | O week at | | Limit | 1.1 | | |
|------------------------------|------------------|------|-------|-----------------|------|----------|
| Parameter | Symbol – | Min | Тур | Max | Unit | Remark |
| VDD Power Source Voltage | V _{DD} | 2.7 | - | 5.5 | V | (Note 2) |
| VFS Voltage to be Impressed | VFS | 2.7 | - | V _{DD} | V | (Note 2) |
| Terminal Input Voltage Range | V _{IN} | 0 | - | V _{DD} | V | - |
| Analog Output Current | Ι _{ΟUT} | -1.0 | - | +1.0 | mA | - |
| Action Temperature Range | Topr | -20 | - | +85 | °C | - |
| Serial Clock Frequency | fclĸ | - | 1.0 | 10.0 | MHz | - |
| Limit Load Capacitance | CL | - | - | 0.1 | μF | - |

(Note 2) Set the power source voltage so that $V_{DD} \ge V_{FS.}$

Electrical Characteristics

(Unless otherwise specified, VDD=VFS=3.0V, RL=OPEN, CL=0pF, Ta=25°C)

| Parameter | Symbol | | Limit | | – Unit | Conditions |
|--|------------------|----------------------|-------|------|--------|-------------------------------------|
| Parameter | Symbol - | Min | Тур | Max | Unit | Conditions |
| <current consumption=""></current> | | | | | | |
| VDD System | IDD | - | 0.5 | 1.5 | mA | $V_{DD}=5V$, CLK=1MHz |
| VFS System | I _{FS} | - | 0.3 | 0.9 | mA | |
| <logic interface=""></logic> | | | | | | |
| L Input Voltage | VIL | Vss | - | 0.6 | V | V _{DD} =5.0V |
| H Input Voltage | Vih | 2.4 | - | Vdd | V | V _{DD} =5.0V |
| Input Current | lin | -10 | - | +10 | μA | |
| <buffer amplifier=""></buffer> | | | | | | |
| | V _{ZS1} | V _{SS} | - | 0.1 | V | 00h setting, at no load |
| Output Zero Scale Voltage | V _{ZS2} | V _{SS} | - | 0.3 | V | 00H setting, I _{OL} =1.0mA |
| | V _{FS1} | Vdd-0.1 | - | Vdd | V | FFH setting, at no load |
| Output Full Scale Voltage | VFS2 | V _{DD} -0.3 | - | Vdd | V | FFH setting, IOH=1.0mA |
| Output ruli Scale voltage | V _{FS3} | V _{FS} -0.1 | - | VFS | V | FFH setting, at no load |
| | VFS4 | V _{FS} -0.3 | - | VFS | V | FFH setting, IOH=1.0mA |
| <d a="" converter="" precision=""></d> | | | | | | |
| Differential Non Linearity Error | DNL | -1.0 | - | +1.0 | LSB | Input code 02H to FDH |
| Integral Non Linearity Error | INL | -1.5 | - | +1.5 | LSB | Input code 02H to FDH |
| VDD Power Source Voltage Rise Time | trvdd | 100 | - | - | μs | V _{DD} =0V to 2.7V |
| Power ON Reset Release Voltage | VPOR | - | 1.9 | - | V | |

Timing Chart

(Unless otherwise specified, $V_{DD} = V_{FS} = 3.0V$, $R_L = OPEN$, $C_L = 0pF$, $Ta = 25^{\circ}C$)

| Deremeter | Limit | | | | 1 1 14 | Qara di tianga |
|--------------------------|-------------------|-----|-----|-----|--------|-----------------|
| Parameter | Symbol | Min | Тур | Max | Unit | Conditions |
| CLK L Level Time | t CLKL | 50 | - | - | ns | |
| CLK H Level Time | tськн | 50 | - | - | ns | |
| DI Setup Time | t _{sDI} | 20 | - | - | ns | |
| DI Hold Time | t hDI | 40 | - | - | ns | |
| CSB Setup Time | t _{sCSB} | 50 | - | - | ns | |
| CSB Hold Time | t hCSB | 50 | - | - | ns | |
| CSB H Level Time | tсѕвн | 50 | - | - | ns | |
| D/A Output Settling Time | tоuт | - | - | 100 | μs | C∟=50pF,R∟=10kΩ |

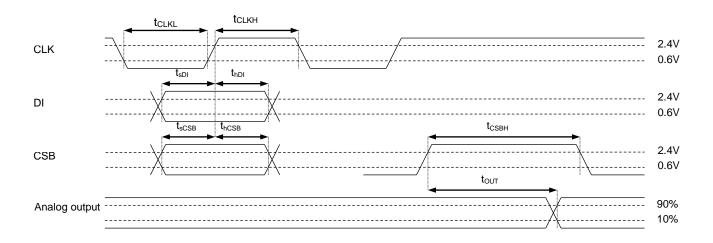
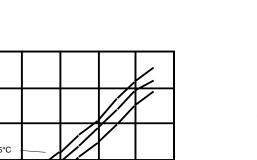


Figure 3

0.6

0.5



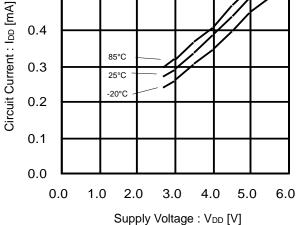


Figure 4. Circuit Current vs Supply Voltage (VDD Current Consumption)

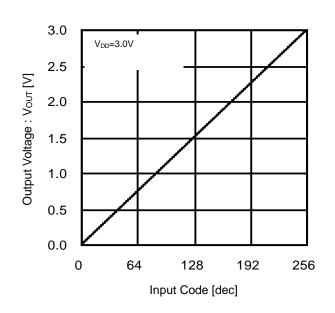
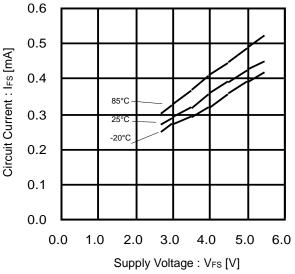
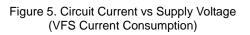


Figure 6. Output Voltage vs Input Code





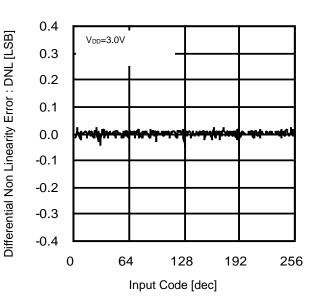


Figure 7. Differential Non Linearity Error vs Input Code

Typical Performance Curves – continued

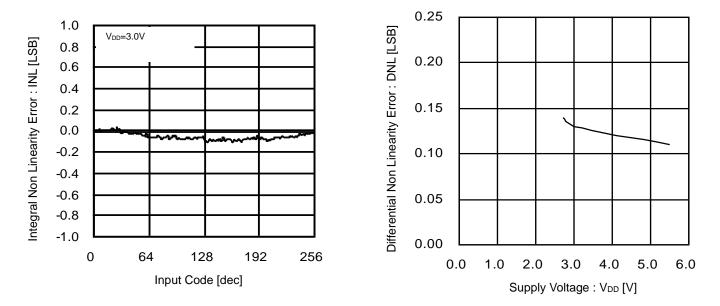


Figure 8. Integral Non Linearity Error vs Input Code

Figure 9. Differential Non Linearity Error vs Supply Voltage

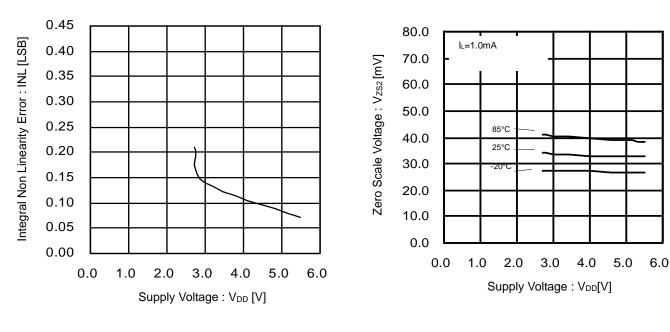
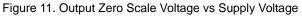
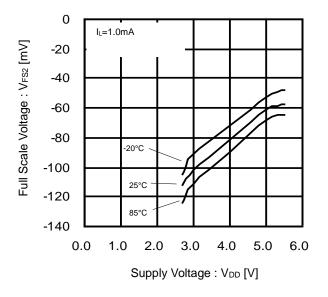


Figure 10. Integral Non Linearity Error vs Supply Voltage



Typical Performance Curves – continued



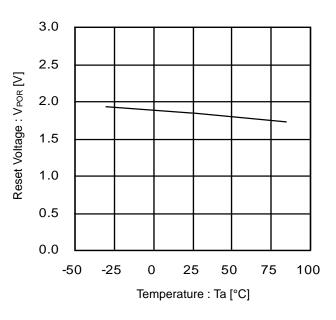


Figure 12. Output Full Scale Voltage vs Supply Voltage

Figure 13. Reset Release Voltage vs Temperature

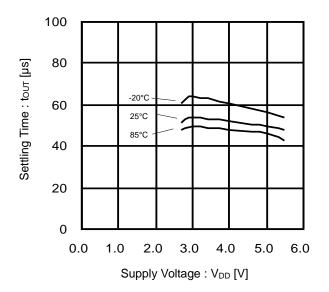


Figure 14. Settling Time vs Supply Voltage

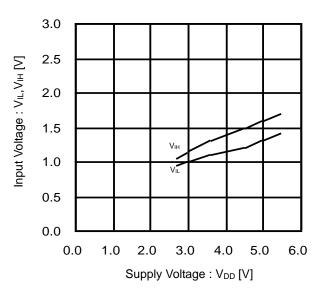


Figure 15. Input Voltage vs Supply Voltage

Application Information

Operation Description

The Serial Control Interface is 3-line serial interface 1) CSB, 2) CLK and 3) DI. Every command is composed of 12 bits data sent through DI line (MSB first). DI data is read every rising edge of the CLK while CSB is LOW. Last 12 bits of data are latched when CSB goes HIGH.

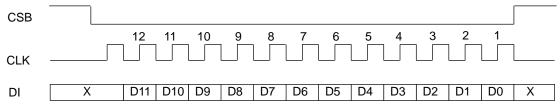


Figure 16

| Data Sett | ings | | | | | | | |
|-----------|------|----|----|----|----|----|----|---|
| D0 | D1 | D2 | D3 | D4 | D5 | D6 | D7 | Setting |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | GND |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (V _{DD} or V _{FS} -GND)/256x1 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | (V _{DD} or V _{FS} -GND)/256x2 |
| 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | (V _{DD} or V _{FS} -GND)/256x3 |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | (V _{DD} or V _{FS} -GND)/256x4 |
| | | | | | | | | |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | (V _{DD} or V _{FS} -GND)/256x254 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | (V _{DD} or V _{FS} -GND)/256x255 |

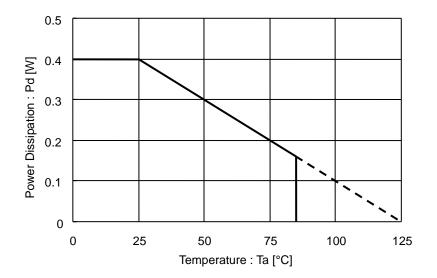
(Note) Initial status D[7:0]=00h

Channel Settings

| D8 | D9 | D10 | D11 | BH2227FV | BH2228FV |
|----|----|-----|-----|----------|----------|
| 0 | 0 | 0 | 0 | Not used | Not used |
| 0 | 0 | 0 | 1 | AO1 | AO1 |
| 0 | 0 | 1 | 0 | AO2 | AO2 |
| 0 | 0 | 1 | 1 | Not used | AO3 |
| 0 | 1 | 0 | 0 | Not used | AO4 |
| 0 | 1 | 0 | 1 | AO3 | AO5 |
| 0 | 1 | 1 | 0 | AO4 | AO6 |
| 0 | 1 | 1 | 1 | Not used | Not used |
| 1 | 0 | 0 | 0 | Not used | Not used |
| 1 | 0 | 0 | 1 | Not used | Not used |
| 1 | 0 | 1 | 0 | Not used | Not used |
| 1 | 0 | 1 | 1 | Not used | Not used |
| 1 | 1 | 0 | 0 | Not used | Not used |
| 1 | 1 | 0 | 1 | Not used | Not used |
| 1 | 1 | 1 | 0 | Not used | Not used |
| 1 | 1 | 1 | 1 | Not used | Not used |

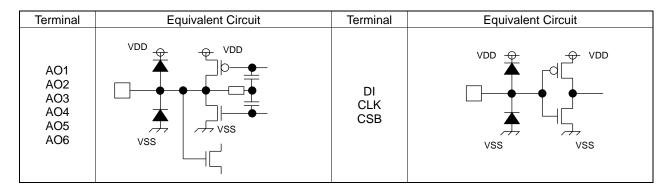
Power Dissipation

· SSOP-B14



Board size : 70mm x 70mm x 1.6mm Material : FR4 glass epoxy board (copper foil area less than 3%)

I/O Equivalent Circuit



Operational Notes

1. Reverse Connection of Power Supply

Connecting the power supply in reverse polarity can damage the IC. Take precautions against reverse polarity when connecting the power supply, such as mounting an external diode between the power supply and the IC's power supply pins.

2. Power Supply Lines

Design the PCB layout pattern to provide low impedance supply lines. Separate the ground and supply lines of the digital and analog blocks to prevent noise in the ground and supply lines of the digital block from affecting the analog block. Furthermore, connect a capacitor to ground at all power supply pins. Consider the effect of temperature and aging on the capacitance value when using electrolytic capacitors.

3. Ground Voltage

Ensure that no pins are at a voltage below that of the ground pin at any time, even during transient condition.

4. Ground Wiring Pattern

When using both small-signal and large-current ground traces, the two ground traces should be routed separately but connected to a single ground at the reference point of the application board to avoid fluctuations in the small-signal ground caused by large currents. Also ensure that the ground traces of external components do not cause variations on the ground voltage. The ground lines must be as short and thick as possible to reduce line impedance.

5. Thermal Consideration

Should by any chance the power dissipation rating be exceeded the rise in temperature of the chip may result in deterioration of the properties of the chip. In case of exceeding this absolute maximum rating, increase the board size and copper area to prevent exceeding the Pd rating.

6. Recommended Operating Conditions

These conditions represent a range within which the expected characteristics of the IC can be approximately obtained. The electrical characteristics are guaranteed under the conditions of each parameter.

7. Inrush Current

When power is first supplied to the IC, it is possible that the internal logic may be unstable and inrush current may flow instantaneously due to the internal powering sequence and delays, especially if the IC has more than one power supply. Therefore, give special consideration to power coupling capacitance, power wiring, width of ground wiring, and routing of connections.

8. Operation Under Strong Electromagnetic Field

Operating the IC in the presence of a strong electromagnetic field may cause the IC to malfunction.

9. Testing on Application Boards

When testing the IC on an application board, connecting a capacitor directly to a low-impedance output pin may subject the IC to stress. Always discharge capacitors completely after each process or step. The IC's power supply should always be turned off completely before connecting or removing it from the test setup during the inspection process. To prevent damage from static discharge, ground the IC during assembly and use similar precautions during transport and storage.

10. Inter-pin Short and Mounting Errors

Ensure that the direction and position are correct when mounting the IC on the PCB. Incorrect mounting may result in damaging the IC. Avoid nearby pins being shorted to each other especially to ground, power supply and output pin. Inter-pin shorts could be due to many reasons such as metal particles, water droplets (in very humid environment) and unintentional solder bridge deposited in between pins during assembly to name a few.

11. Unused Input Pins

Input pins of an IC are often connected to the gate of a MOS transistor. The gate has extremely high impedance and extremely low capacitance. If left unconnected, the electric field from the outside can easily charge it. The small charge acquired in this way is enough to produce a significant effect on the conduction through the transistor and cause unexpected operation of the IC. So unless otherwise specified, unused input pins should be connected to the power supply or ground line.

Operational Notes – continued

12. Regarding the Input Pin of the IC

This monolithic IC contains P+ isolation and P substrate layers between adjacent elements in order to keep them isolated. P-N junctions are formed at the intersection of the P layers with the N layers of other elements, creating a parasitic diode or transistor. For example (refer to figure below):

When GND > Pin A and GND > Pin B, the P-N junction operates as a parasitic diode. When GND > Pin B, the P-N junction operates as a parasitic transistor.

Parasitic diodes inevitably occur in the structure of the IC. The operation of parasitic diodes can result in mutual interference among circuits, operational faults, or physical damage. Therefore, conditions that cause these diodes to operate, such as applying a voltage lower than the GND voltage to an input pin (and thus to the P substrate) should be

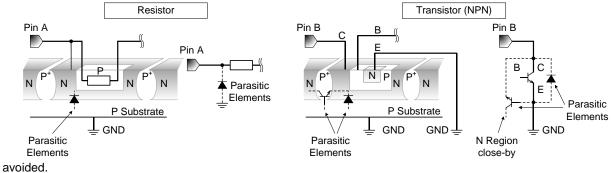
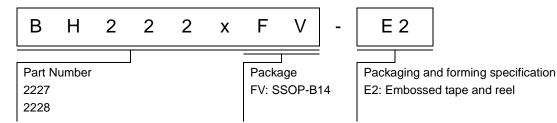


Figure 17. Example of monolithic IC structure

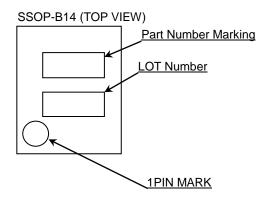
13. Reset Function

The power on reset circuit, which initializes internal settings, may malfunction during abrupt power ons. Therefore, set the time constant so as to satisfy the power source rise time.

Ordering Information

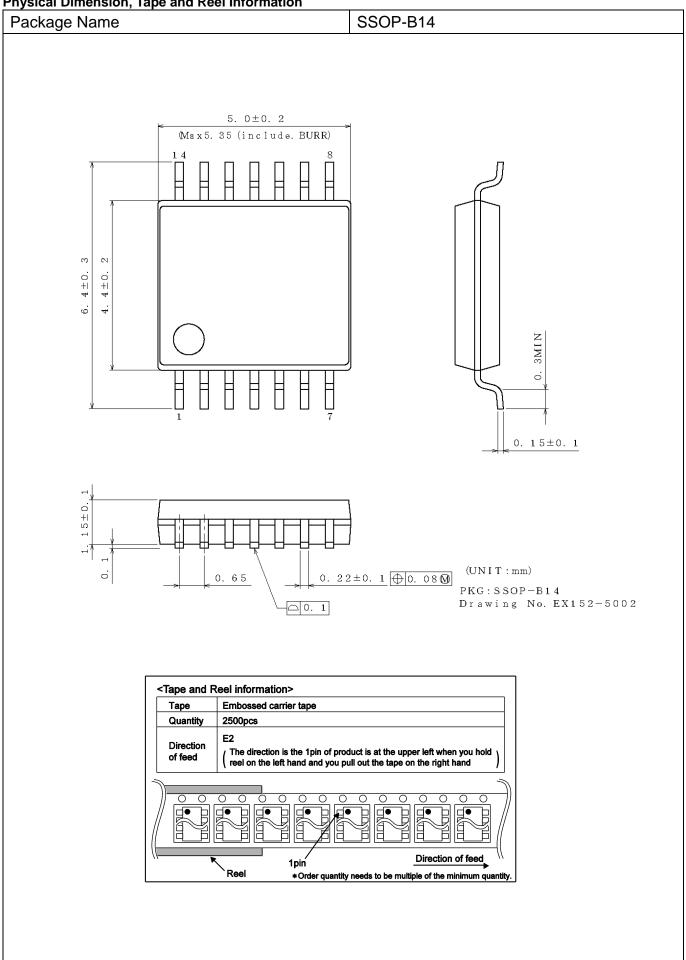


Marking Diagram



| Part Number | Part Number Marking |
|-------------|---------------------|
| BH2227FV-E2 | H2227 |
| BH2228FV-E2 | H2228 |

Physical Dimension, Tape and Reel Information



Revision History

| Date | Revision | Changes |
|-------------|----------|-------------|
| 06.Nov.2015 | 001 | New Release |

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|---|
|---|

| JAPAN | USA | EU | CHINA |
|--------|---------|------------|--------|
| CLASSⅢ | CLASSⅢ | CLASS II b | CLASSI |
| CLASSⅣ | CLASSII | CLASSⅢ | |

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 - [b] Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
 - [c] Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [d] Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
 - [e] Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
 - [f] Sealing or coating our Products with resin or other coating materials
 - [g] Use of our Products without cleaning residue of flux (even if you use no-clean type fluxes, cleaning residue of flux is recommended); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
 - [h] Use of the Products in places subject to dew condensation
- 4. The Products are not subject to radiation-proof design.
- 5. Please verify and confirm characteristics of the final or mounted products in using the Products.
- 6. In particular, if a transient load (a large amount of load applied in a short period of time, such as pulse. is applied, confirmation of performance characteristics after on-board mounting is strongly recommended. Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
- 7. De-rate Power Dissipation depending on ambient temperature. When used in sealed area, confirm that it is the use in the range that does not exceed the maximum junction temperature.
- 8. Confirm that operation temperature is within the specified range described in the product specification.
- 9. ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

Precaution for Mounting / Circuit board design

- 1. When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
- 2. In principle, the reflow soldering method must be used on a surface-mount products, the flow soldering method must be used on a through hole mount products. If the flow soldering method is preferred on a surface-mount products, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification

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- 1. If change is made to the constant of an external circuit, please allow a sufficient margin considering variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.
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Precaution for Electrostatic

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of lonizer, friction prevention and temperature / humidity control).

Precaution for Storage / Transportation

- 1. Product performance and soldered connections may deteriorate if the Products are stored in the places where:
 - [a] the Products are exposed to sea winds or corrosive gases, including Cl2, H2S, NH3, SO2, and NO2
 - [b] the temperature or humidity exceeds those recommended by ROHM
 - [c] the Products are exposed to direct sunshine or condensation
 - [d] the Products are exposed to high Electrostatic
- 2. Even under ROHM recommended storage condition, solderability of products out of recommended storage time period may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is exceeding the recommended storage time period.
- 3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
- 4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

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BH2227FV - Web Page

Distribution Inventory

| Part Number | BH2227FV |
|-----------------------------|----------|
| Package | SSOP-B14 |
| Unit Quantity | 2500 |
| Minimum Package Quantity | 2500 |
| Packing Type | Taping |
| Constitution Materials List | inquiry |
| RoHS | Yes |