

1A Variable / Fixed Output LDO Regulator



BDxxGC0WEFJ

●General Description

BDxxGC0WEFJ series devices are LDO regulators with an output current of 1.0A. The output accuracy is $\pm 1\%$ of the output voltage. Both fixed and variable output voltage devices are available. The output voltage of the variable output voltage device can be varied from 1.5 to 13.0V using external resistors. Various fixed output voltage devices that do not use external resistors are also available. It can be used for a wide range of digital appliance applications. It has a small package type: HTSOP-J8 (4.90mm x 6.00mm x 1.00mm). These devices have built in over current protection to protect the device when output is shorted, 0 μ A shutdown mode and thermal shutdown circuit to protect the device during over load conditions. These LDO regulators are usable with ceramic capacitors that enable a smaller layout and longer life.

●Features

- +/-1% output voltage accuracy
- Built-in Over Current Protection circuit (OCP)
- Built-in Thermal Shut Down circuit (TSD)
- Zero μ A shutdown mode

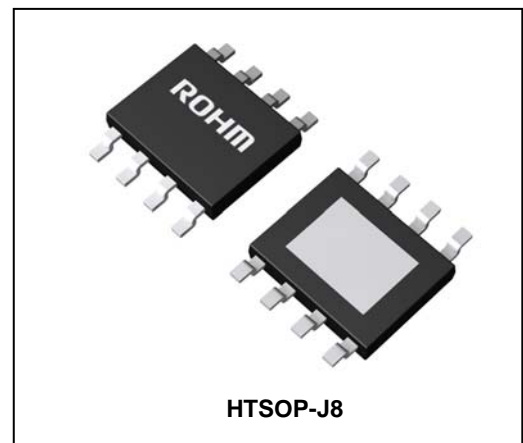
●Key Specifications

- Input Power Supply Voltage range: 4.5V to 14.0V
- Output voltage range(Variable type): 1.5V to 13.0V
- Output voltage(Fixed type): 1.5V/1.8V/2.5V/3.0V /3.3V/5.0V/6.0V/7.0V/8.0V/9.0V/10V/12V
- Output current: 1.0A(Max.)
- Shutdown current: 0 μ A(Typ.)
- Operating temperature range: -25°C to +85°C

●Package

HTSOP-J8

(Typ.) (Typ.) (Max.)
4.90mm x 6.00 mm x 1.00mm

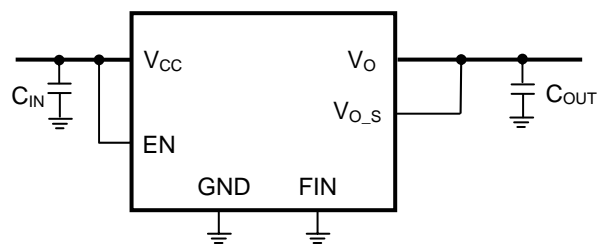


●Typical Application Circuit



C_{IN}, C_{OUT} : Ceramic Capacitor

Variable output voltage type



C_{IN}, C_{OUT} : Ceramic Capacitor

Fixed output voltage type

● Ordering Information

B D x x G C 0 W E F J						E 2
Part Number	Output voltage	Input voltage range	Output current	Shutdown mode	Package	Packaging and forming specification
	00:Variable 15:1.5V 18:1.8V 25:2.5V 30:3.0V 33:3.3V 50:5.0V 60:6.0V 70:7.0V 80:8.0V 90:9.0V J0:10.0V J2:12.0V	G:15V	C0:1.0A	"W":Include	EFJ:HTSOP-J8	E2:Emboss tape reel

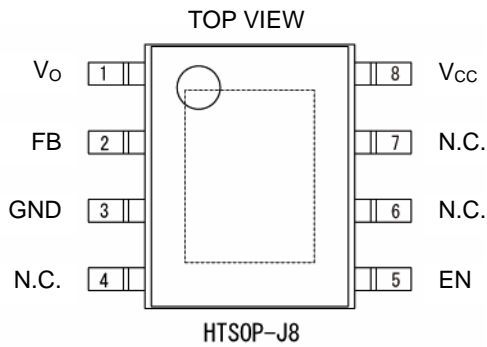
●Block Diagram

BD00GC0WEFJ(Variable output voltage type)



Fig.1 Block Diagram

●Pin Configuration



●Pin Description

Pin No.	Pin name	Pin Function
1	V _O	Output pin
2	FB	Feedback pin
3	GND	GND pin
4	N.C.	No Connect (Connect to GND or leave OPEN)
5	EN	Enable pin
6	N.C.	No Connect (Connect to GND or leave OPEN)
7	N.C.	No Connect (Connect to GND or leave OPEN)
8	V _{CC}	Input pin
Reverse	FIN	Substrate(Connect to GND)

● Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Ratings	Unit
Power supply voltage		V _{CC}	15.0 * ¹	V
EN voltage		V _{EN}	15.0	V
Power dissipation	HTSOP-J8	Pd* ²	2110 * ²	mW
Operating Temperature Range		Topr	-25 to +85	°C
Storage Temperature Range		Tstg	-55 to +150	°C
Junction Temperature		Tjmax	+150	°C

*1 Not to exceed Pd

*2 Reduced by 16.9mW/°C for each increase in Ta of 1°C over 25°C. (when mounted on a board 70mm × 70mm × 1.6mm glass-epoxy board, two layer)

● Recommended Operating Ratings (Ta=25°C)

Parameter	Symbol	Ratings		Unit
		Min.	Max.	
Input power supply voltage	V _{CC}	4.5	14.0	V
EN voltage	V _{EN}	0.0	14.0	V
Output voltage setting range	V _O	1.5	13.0	V
Output current	I _O	0.0	1.0	A

● Electrical Characteristics (Unless otherwise noted, Ta=25°C, EN=3V, V_{CC}=6V, R₁=43kΩ, R₂=8.2kΩ)

Parameter	Symbol	Limits			Unit	Conditions
		Min.	Typ.	Max.		
Circuit current at shutdown mode	I _{SD}	-	0	5	μA	V _{EN} =0V, OFF mode
Bias current	I _{CC}	-	600	900	μA	
Line regulation	Reg.I	-1	-	1	%	V _{CC} =(V _O +0.92V)→14.0V
Load regulation	Reg I _O	-1.5	-	1.5	%	I _O =0→1.0A
Minimum dropout voltage1	V _{CO1}	-	0.15	0.23	V	V _{CC} =5V, I _O =250mA
Minimum dropout voltage2	V _{CO2}	-	0.30	0.46	V	V _{CC} =5V, I _O =500mA
Minimum dropout voltage3	V _{CO3}	-	0.45	0.69	V	V _{CC} =5V, I _O =750mA
Minimum dropout voltage4	V _{CO4}	-	0.60	0.92	V	V _{CC} =5V, I _O =1.0A
Output reference voltage(Variable type)	V _{FB}	0.792	0.800	0.808	V	I _O =0A
Output voltage(Fixed type)	V _O	V _O × 0.99	V _O	V _O × 1.01	V	I _O =0A
EN Low voltage	V _{EN} (Low)	0	-	0.8	V	
EN High voltage	V _{EN} (High)	2.4	-	14.0	V	
EN Bias current	I _{EN}	1	3	9	μA	

●Typical Performance Curves

(Unless otherwise noted, $T_a=25^{\circ}\text{C}$, $V_{EN}=3\text{V}$, $V_{CC}=6\text{V}$, $R_1=43\text{k}\Omega$, $R_2=8.2\text{k}\Omega$)

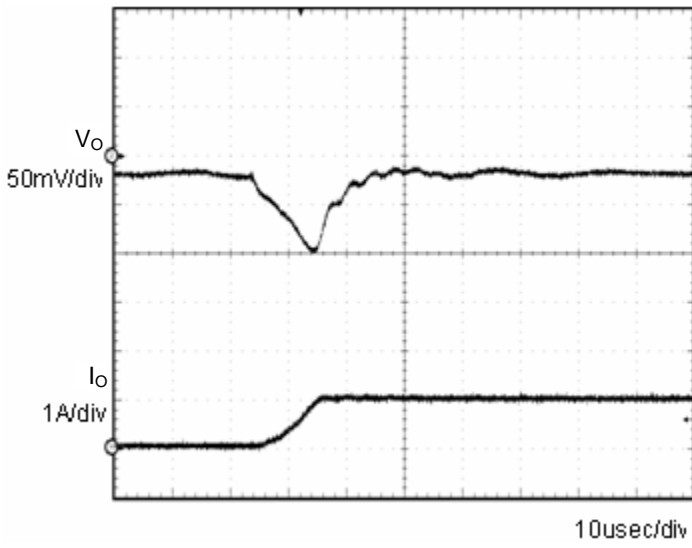


Fig.3
Transient Response
(0→1.0A)
 $C_o=1\mu\text{F}$



Fig.4
Transient Response
(1.0→0A)
 $C_o=1\mu\text{F}$

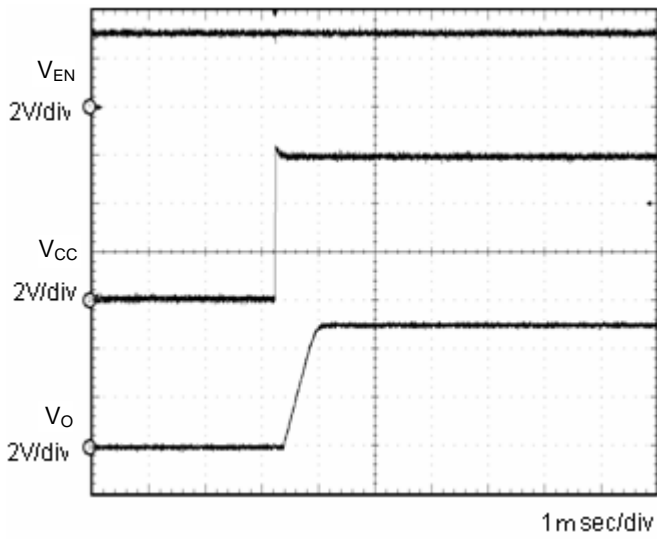


Fig.5
Input sequence 1
 $C_o=1\mu\text{F}$



Fig.6
OFF sequence 1
 $C_o=1\mu\text{F}$

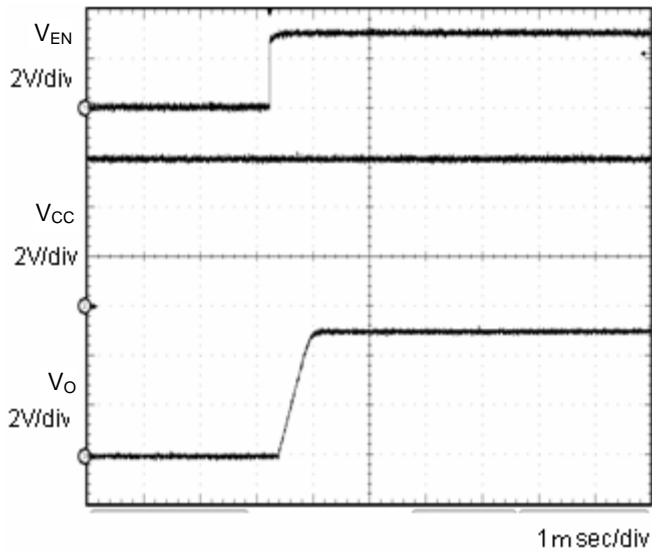


Fig.7
Input sequence 2
Co=1μF

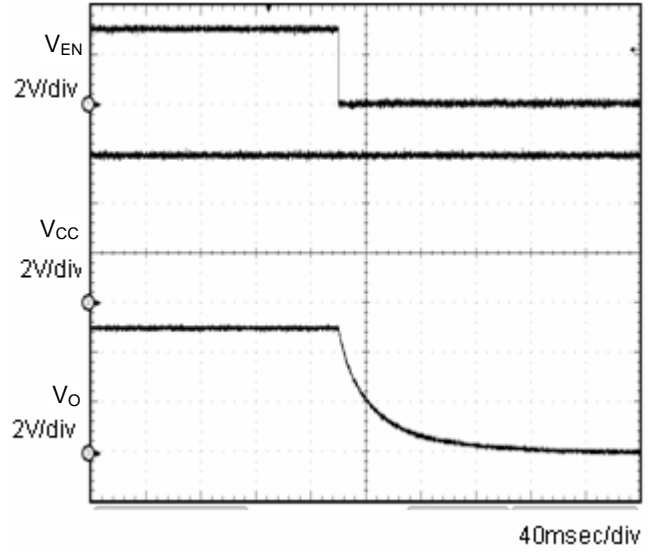


Fig.8
OFF sequence 2
Co=1μF



Fig.9
 T_a - V_o ($I_o=0mA$)



Fig.10
 T_a - I_{cc}



Fig.11
 T_a - I_{SD}
 ($V_{EN}=0V$)



Fig.12
 T_a - I_{EN}



Fig.13
 I_O - V_O



Fig.14
 V_{CC} - I_{SD}
 ($V_{EN}=0V$)



Fig.15
V_{cc}-V_o (I_o=0mA)



Fig.16
TSD (I_o=0mA)



Fig.17
OCP



Fig.18
Minimum dropout Voltage 1
(V_{cc}=5V, I_o=-1.0A)



Fig.19
ESR condencer

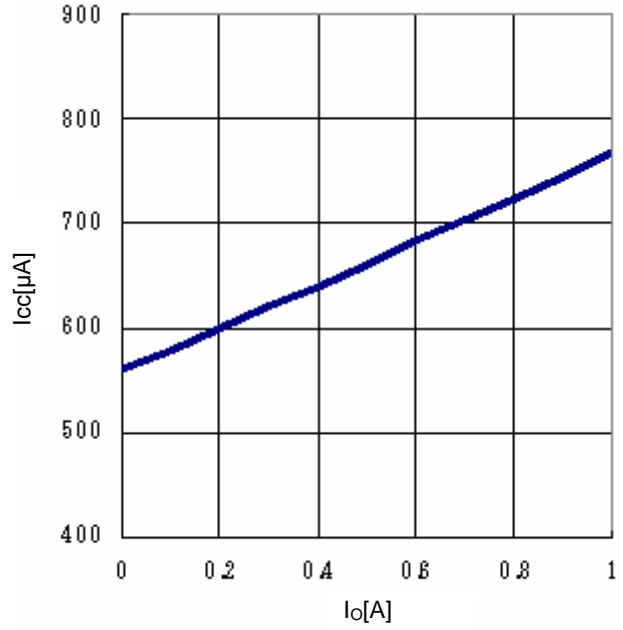


Fig.20
Io-Icc



Fig.21
PSRR (Io=0mA)

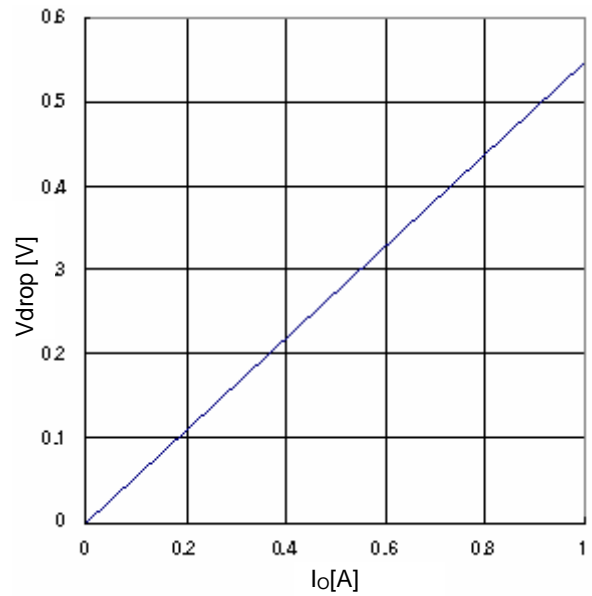


Fig.22
Minimum dropout Voltage 2
(Vcc=4.5V, Ta=25°C)



Fig.23
Minimum dropout Voltage 3
($V_{CC}=6V$, $T_a=25^\circ C$)



Fig.24
Minimum dropout Voltage 4
($V_{CC}=8V$, $T_a=25^\circ C$)



Fig.25
Minimum dropout Voltage 5
($V_{CC}=10V$, $T_a=25^\circ C$)



Fig.26
Minimum dropout Voltage 6
($V_{CC}=12V$, $T_a=25^\circ C$)

●Power Dissipation

◎HTSOP-J8



Measurement condition: mounted on a ROHM board

Substrate size: 70mm × 70mm × 1.6mm
(Substrate with thermal via)

• Solder the thermal pad to Ground

- ① IC only
 $\theta_{j-a}=249.5^{\circ}\text{C/W}$
- ② 1-layer (copper foil are :0mm × 0mm)
 $\theta_{j-a}=153.2^{\circ}\text{C/W}$
- ③ 2-layer (copper foil are :15mm × 15mm)
 $\theta_{j-a}=113.6^{\circ}\text{C/W}$
- ④ 2-layer (copper foil are :70mm × 70mm)
 $\theta_{j-a}=59.2^{\circ}\text{C/W}$
- ⑤ 4-layer (copper foil are :70mm × 70mm)
 $\theta_{j-a}=33.3^{\circ}\text{C/W}$

Thermal design should ensure operation within the following conditions. Note that the temperatures listed are the allowed temperature limits and thermal design should allow sufficient margin beyond these limits.

1. Ambient temperature Ta can be no higher than 85°C.
2. Chip junction temperature (Tj) can be no higher than 150°C.

Chip junction temperature can be determined as follows:

Calculation based on ambient temperature (Ta)

$$T_j = T_a + \theta_{j-a} \times W$$

<Reference values>

θ_{j-a} : HTSOP-J8	153.2°C/W	1-layer substrate (copper foil density 0mm × 0mm)
	113.6°C/W	2-layer substrate (copper foil density 15mm × 15mm)
	59.2°C/W	2-layer substrate (copper foil density 70mm × 70mm)
	33.3°C/W	4-layer substrate (copper foil density 70mm × 70mm)
		Substrate size: 70mm × 70mm × 1.6mm (substrate with thermal via)

Most of the heat loss that occurs in the BDxxGC0WEFJ series is generated from the output Pch FET. Power loss is determined by the total $V_{CC}-V_O$ voltage and output current. Be sure to confirm the system input and output voltage and the output current conditions in relation to the heat dissipation characteristics of the V_{CC} and V_O in the design. Bearing in mind that heat dissipation may vary substantially depending on the substrate employed (due to the power package incorporated in the BDxxGC0WEFJ make certain to factor conditions such as substrate size into the thermal design.

$$\text{Power consumption [W]} = \{ \text{Input voltage (} V_{CC} \text{) - Output voltage (} V_O \text{)} \} \times I_O(\text{Ave})$$

Example) Where $V_{CC}=5.0\text{V}$, $V_O=3.3\text{V}$, $I_O(\text{Ave}) = 0.1\text{A}$,

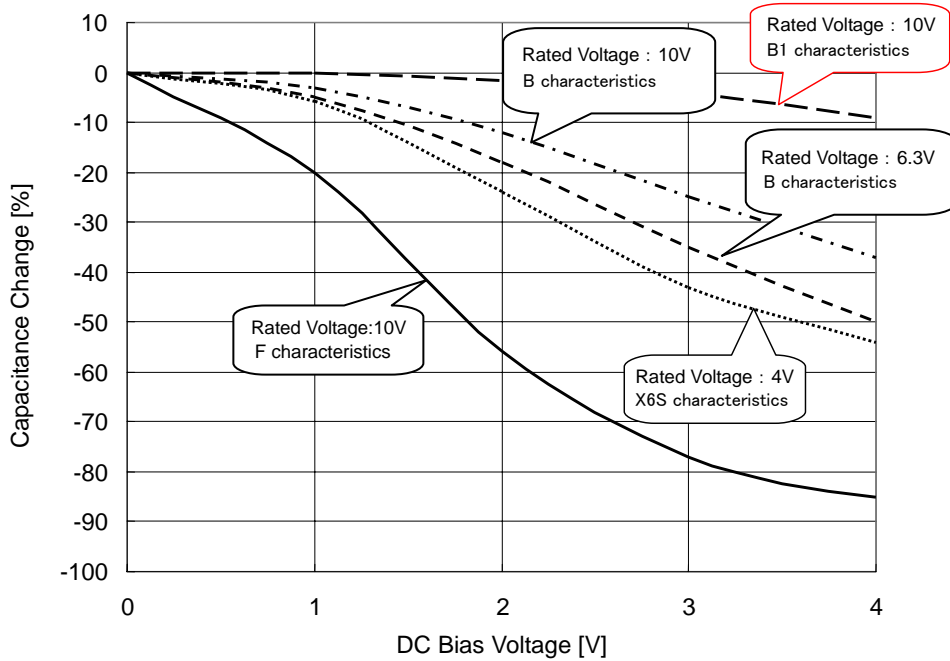
$$\text{Power consumption [W]} = \{ 5.0 \text{ V} - 3.3\text{V} \} \times 0.1\text{A}$$

$$= 0.17[\text{W}]$$

●Input-to-Output Capacitor

It is recommended that a capacitor (over 1uF) is placed near pins between the input pin and GND as well as the output pin and GND. A capacitor, between input pin and GND, is valid when the power supply impedance is high or trace is long. Also, as for the capacitor between the output pin and GND, the greater the capacitance, the more sustainable the line regulation will be and the capacitor will make improvements of characteristics depending on the load. However, please check the actual functionality of this part by mounting it on a board for the actual application. Ceramic capacitors usually have different, thermal and equivalent series resistance characteristics, and moreover capacitance decreases gradually in use.

For additional details, please check with the manufacturer, and select the best ceramic capacitor for your application.



Ceramic capacitor capacity – DC bias characteristics (Characteristics example)

●Equivalent Series Resistance ESR (ceramic capacitor etc.)

To prevent oscillations, please attach a capacitor between V_O and GND. Capacitors usually have ESR (Equivalent Series Resistance). Operation will be stable in the ESR- I_O range shown to the right. Ceramic, tantalum and electrolytic Capacitors have different ESR values, so please ensure that you are using a capacitor that operates in the stable operating region shown on the right. Finally, please evaluate in the actual application.



ESR – I_O characteristics

●Evaluation Board Circuit



●Evaluation Board Parts List

Designation	Value	Part No.	Company	Designation	Value	Part No.	Company
R1	43kΩ	MCR01PZPZF4302	ROHM	C4	-	-	-
R2	8.2kΩ	MCR01PZPZF8201	ROHM	C5	1μF	CM105B105K16A	KYOCERA
R3	-	-	-	C6	-	-	-
R4	-	-	-	C7	-	-	-
R5	-	-	-	C8	-	-	-
R6	-	-	-	C9	-	-	-
C1	1μF	CM105B105K16A	KYOCERA	C10	-	-	-
C2	-	-	-	U1	-	BD00GC0WEFJ	ROHM
C3	-	-	-	U2	-	-	-

●Board Layout



PCB layout considerations:

- Input capacitor C_{IN} connected to $V_{CC} (V_{IN})$ should be placed as close to $V_{CC}(V_{IN})$ pin as possible. Output capacitor C_{OUT} also should be placed as close to IC pin as possible. In case the part is connected to inner layer GND plane, please use several through holes.
- FB pin has comparatively high impedance and can be affected by noise, so stray capacitance should be as small as possible. Please take care of this during layout.
- Please make GND pattern wide enough to handle thermal dissipation.
- For output voltage setting (BD00GC0WEFJ)
Output voltage can be set by FB pin voltage (0.800V typ.) and external resistance R1, R2.

$$V_O = V_{FB} \times \frac{R1+R2}{R2}$$

(The use of resistors with $R1+R2=1k$ to $90k$ is recommended)

● I/O Equivalent Circuits (Variable output voltage type)



● I/O Equivalent Circuits (Fixed output voltage type)



●Operational Notes

(1) Absolute maximum ratings

An excess in the absolute maximum ratings, such as supply voltage, temperature range of operating conditions, etc., can break down the device, thus making it impossible to identify the damage mode, such as a short circuit or an open circuit. If there is any possibility of exposure over the rated values, please consider adding circuit protection devices such as fuses.

(2) Connecting the power supply connector backward

Connecting of the power supply in reverse polarity can damage the IC. Take precautions when connecting the power supply lines. An external direction diode can be added.

(3) Power supply lines

Design the PCB layout pattern to provide low impedance GND and supply lines. To obtain a low noise ground and supply line, separate the ground section and supply lines of the digital and analog blocks. Furthermore, for all power supply terminals to ICs, connect a capacitor between the power supply and GND terminal. When using electrolytic capacitors in a circuit, note that capacitance values are reduced at low temperatures and over time.

(4) GND voltage

The potential of the GND pin must be minimum potential under all operating conditions.

(5) Thermal design

Use a thermal design that allows for a sufficient margin in light of the power dissipation (Pd) in actual operating conditions.

(6). Inter-pin shorts and mounting errors

Use caution when positioning the IC for mounting on printed circuit boards. The IC may be damaged if there is any connection error or if pins are shorted together.

(7). Actions in strong electromagnetic field

Use caution when using the IC in the presence of a strong electromagnetic field as doing so may cause the IC to malfunction.

(8). ASO

When using the IC, set the output transistor so that it does not exceed absolute maximum ratings or ASO.

(9). Thermal shutdown circuit

The IC incorporates a built-in thermal shutdown circuit (TSD circuit). The thermal shutdown circuit (TSD circuit) is designed only to shut the IC off to prevent thermal runaway. It is not designed to protect the IC or guarantee its operation. Do not continue to use the IC after operating this circuit or use the IC in an environment where the operation of this circuit is assumed.

	TSD ON Temperature[°C] (typ.)	Hysteresis Temperature [°C] (typ.)
BDxxGC0WEFJ	175	15

(10). Testing on application boards

When testing the IC on an application board, connecting a capacitor to a pin with low impedance subjects the IC to stress. Always discharge capacitors after each process or step. Always turn the IC's power supply off before connecting it to or removing it from a jig or fixture during the inspection process. Ground the IC during assembly steps as an antistatic measure. Use similar precaution when transporting or storing the IC.

(11). Regarding 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 these P layers with the N layers of other elements, creating a parasitic diode or transistor. For example, the relation between each potential is as follows:

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 can occur inevitable in the structure of the IC.

The operation of parasitic diodes can result in mutual interference among circuits, operational faults, or physical damage. Accordingly, methods by which parasitic diodes operate, such as applying a voltage that is lower than the GND (P substrate) voltage to an input pin, should not be used.

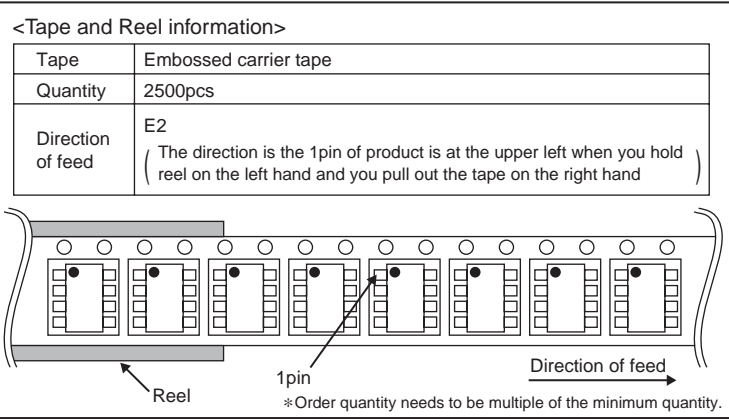


(12). Ground Wiring Pattern.

When using both small signal and large current GND patterns, it is recommended to isolate the two ground patterns, placing a single ground point at the ground potential of application so that the pattern wiring resistance and voltage variations caused by large currents do not cause variations in the small signal ground voltage. Be careful not to change the GND wiring pattern of any external components, either.

●Physical Dimension Tape and Reel Information

HTSOP-J8



●Marking Diagram



xx	Product Name
00	BD00GC0WEFJ
15	BD15GC0WEFJ
18	BD18GC0WEFJ
25	BD25GC0WEFJ
30	BD30GC0WEFJ
33	BD33GC0WEFJ
50	BD50GC0WEFJ
60	BD60GC0WEFJ
70	BD70GC0WEFJ
80	BD80GC0WEFJ
90	BD90GC0WEFJ
J0	BDJ0GC0WEFJ
J2	BDJ2GC0WEFJ

●Revision History

Date	Revision	Changes
25.July.2012	001	New Release
7.Feb.2013	002	The description was modified

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- Our Products are designed and manufactured for application in ordinary electronic equipments (such as AV equipment, OA equipment, telecommunication equipment, home electronic appliances, amusement equipment, etc.). If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment ^(Note 1), transport equipment, traffic equipment, aircraft/spacecraft, nuclear power controllers, fuel controllers, car equipment including car accessories, safety devices, etc.) and whose malfunction or failure may cause loss of human life, bodily injury or serious damage to property ("Specific Applications"), please consult with the ROHM sales representative in advance. Unless otherwise agreed in writing by ROHM in advance, ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of any ROHM's Products for Specific Applications.

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JAPAN	USA	EU	CHINA
CLASS III	CLASS III	CLASS II b	CLASS III
CLASS IV		CLASS III	

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 - Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
 - Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
 - Sealing or coating our Products with resin or other coating materials
 - 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
 - Use of the Products in places subject to dew condensation
- The Products are not subject to radiation-proof design.
- Please verify and confirm characteristics of the final or mounted products in using the Products.
- 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.
- De-rate Power Dissipation (Pd) depending on Ambient temperature (Ta). When used in sealed area, confirm the actual ambient temperature.
- Confirm that operation temperature is within the specified range described in the product specification.
- ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

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- When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
- In principle, the reflow soldering method must be used; if flow soldering method is preferred, please consult with the ROHM representative in advance.

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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 Ionizer, friction prevention and temperature / humidity control).

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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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[BD00GC0WEFJ-E2](#) [BD30GC0WEFJ-E2](#) [BDJ2GC0WEFJ-E2](#) [BD18GC0WEFJ-E2](#) [BD70GC0WEFJ-E2](#)
[BD80GC0WEFJ-E2](#) [BD33GC0WEFJ-E2](#) [BD60GC0WEFJ-E2](#) [BD90GC0WEFJ-E2](#) [BD50GC0WEFJ-E2](#)
[BD15GC0WEFJ-E2](#) [BD25GC0WEFJ-E2](#) [BDJ0GC0WEFJ-E2](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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