

500mA Variable / Fixed Output **LDO Regulators**

BDxxIA5WEFJ

General Description

BDxxIA5WEFJ series devices are LDO regulators with an output current of 0.5A. The output accuracy is ±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 0.8 to 4.5V 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, 0µA 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 µA Shutdown mode

Key Specifications

Input Power Supply Voltage range: 2.4V to 5.5V 0.8V to 4.5V

Output voltage range(Variable type):

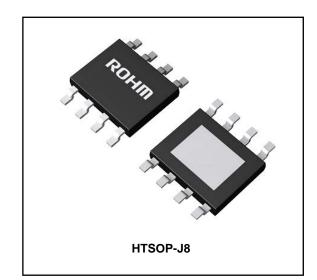
Output voltage(Fixed type):

1.0V/1.2V/1.5V/1.8V/2.5V/3.0V/3.3V

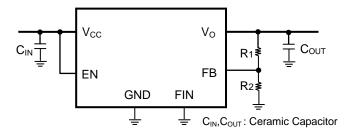
Output current: 0.5A (Max.) Shutdown current: 0μA (Typ.)

Operating temperature range: -25°C to +85°C Package HTSOP-J8

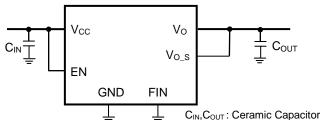
(Typ.) (Max.) (Typ.) 4.90mm x 6.00mm x 1.00mm



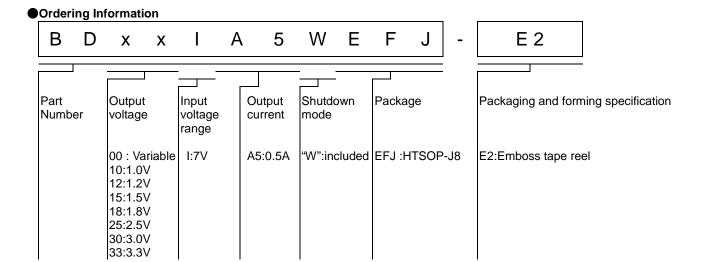
Typical Application Circuit



Output voltage variable type



Output voltage fixed type



Block Diagram

BD00IA5WEFJ(Variable output voltage type)

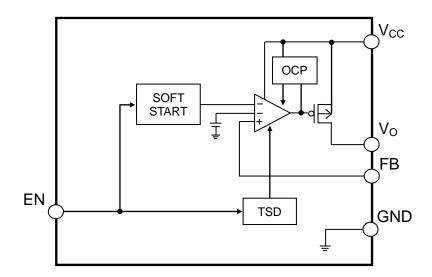
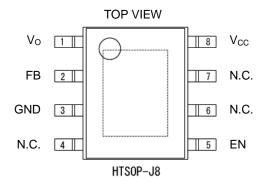


Fig.1 Block Diagram

●Pin Configuration



●Pin Description

Pin No.	Pin name	Pin Function	
1	Vo	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	Vcc	Input pin	
Reverse	FIN	Substrate(Connect to GND)	

Block Diagram

BDxxIA5WEFJ(Fixed output voltage type)

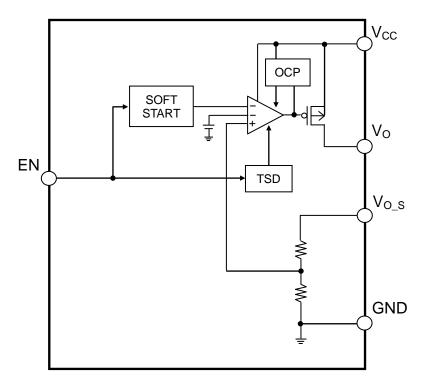
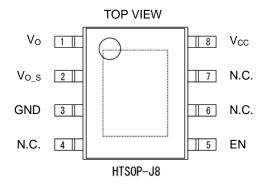


Fig.2 Block Diagram

Pin Configuration



●Pin Description

Pin No.	Pin name	Pin Function	
1	Vo	Output pin	
2	V_{O_S}	Output voltage monitor 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)

Paramete	er	Symbol	Ratings	Unit
Power supply voltage)	Vcc	7.0 ^{*1}	V
EN voltage		V _{EN}	7.0	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

• Recommended Operating Ratings (Ta=25°C)

Parameter	Cymphol	Rati	Unit		
Falameter	Symbol	Min.	Max.	Utill	
Input power supply voltage	V _{CC}	2.4	5.5	V	
EN voltage	V _{EN}	0.0	5.5	V	
Output voltage setting range	Vo	0.8	4.5	V	
Output current	Io	0.0	0.5	Α	

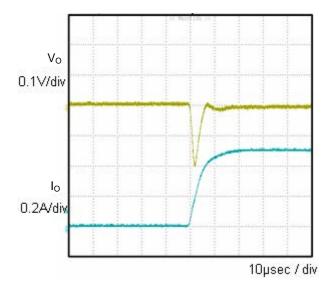
● Electrical Characteristics (Unless otherwise noted, Ta=25°C, EN=3V, V_{CC}=3.3V, R₁=16kΩ, R₂=7.5kΩ)

Parameter	Cumbal	Symbol Limits		Unit	Conditions		
Farameter	Symbol	Min.	Тур.	Max.	Offic	Conditions	
Circuit current at shutdown mode	I _{SD}	-	0	5	μΑ	V _{EN} =0V, OFF mode	
Bias current	I _{CC}	-	250	500	μΑ		
Line regulation	Reg.I	-1	-	1	%	V _{CC} =(V _O +0.6V)→5.5V	
Load regulation	Reg Io	-1.5	-	1.5	%	I _O =0→0.5A	
Minimum dropout voltage1	V _{CO1}	-	0.1	0.15	V	V _{CC} =3.3V, I _O =125mA	
Minimum dropout voltage2	V _{CO2}	-	0.2	0.30	V	V _{CC} =3.3V, I _O =250mA	
Minimum dropout voltage3	V _{CO3}	-	0.3	0.45	V	V _{CC} =3.3V, I _O =375mA	
Minimum dropout voltage4	V _{CO4}	-	0.4	0.60	V	V_{CC} =3.3V, I_{O} =500mA	
Output reference voltage(Variable type)	V_{FB}	0.792	0.800	0.808	V	I _O =0A	
Output voltage(Fixed type)	Vo	Vo×0.99	Vo	Vo × 1.01	٧	I _O =0A	
EN Low voltage	V _{EN_Low}	0	-	0.8	V		
EN High voltage	V _{EN_High}	2.4	-	5.5	V		
EN Bias current	I _{EN}	1	3	9	μΑ		

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)

●Typical Performance Curves

(Unless otherwise noted, Ta=25°C, EN=3V, V_{CC}=3.3V, R₁=16k Ω , R₂=7.5k Ω)



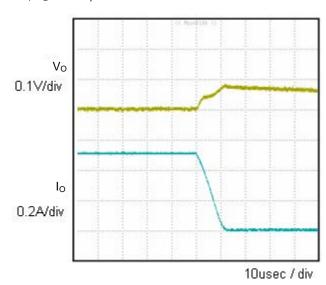
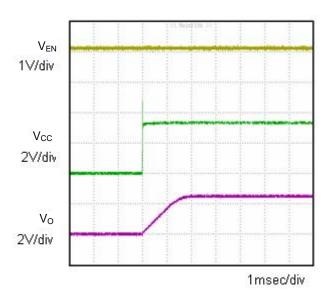


Fig.3 Transient Response (0→0.5A) Co=1µF

Fig.4
Transient Response (0.5→0A)
Co=1µF



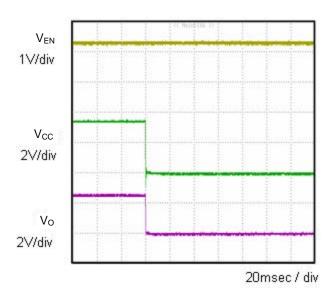
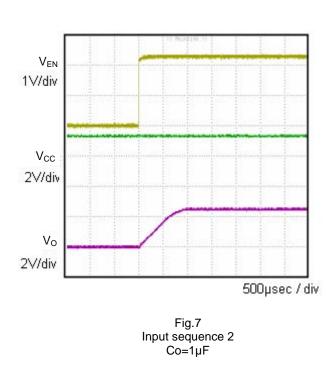


Fig.5 Input sequence 1 Co=1µF

Fig.6 OFF sequence 1 Co=1µF



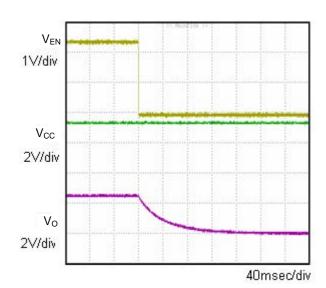
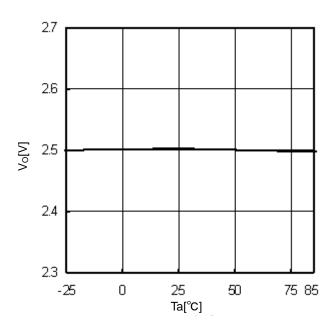
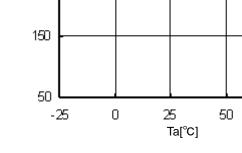


Fig.8 OFF sequence 2 Co=1µF





450

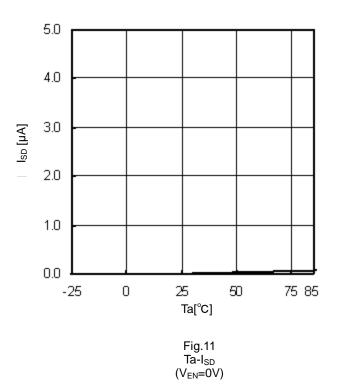
350

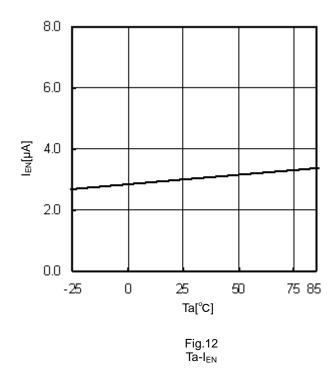
250

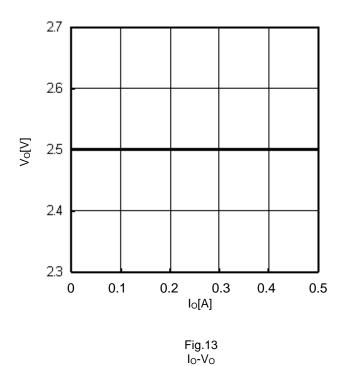
Fig.9 Ta- V_O (I_O =0mA)

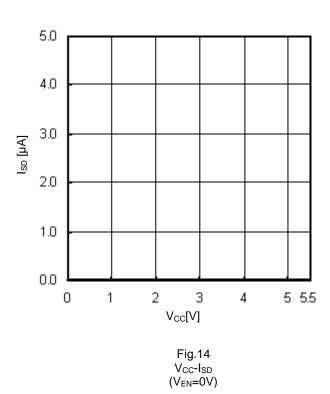
Fig.10 Ta-I_{CC}

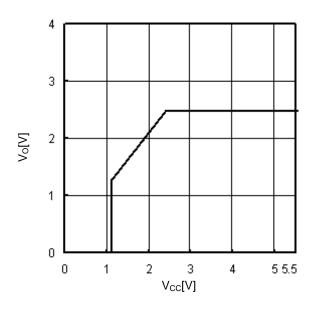
75 85











 $\begin{array}{c} \text{Fig.15} \\ \text{V}_{\text{CC}}\text{-V}_{\text{O}} \left(\text{I}_{\text{O}}\text{=}\text{0mA}\right) \end{array}$

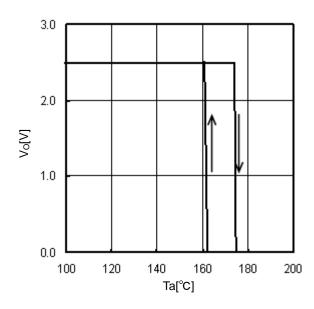


Fig.16 TSD (I_O=0mA)

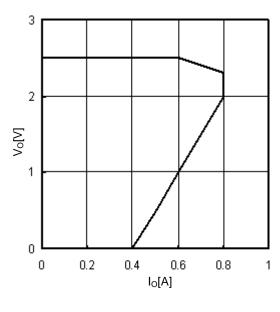


Fig.17 OCP

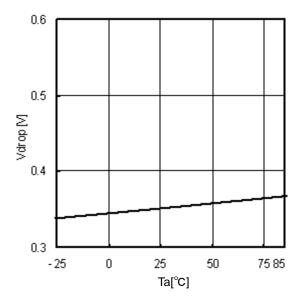


Fig.18 Minimum dropout Voltage 1 (Vcc=3.3V, Io=-0.5A)

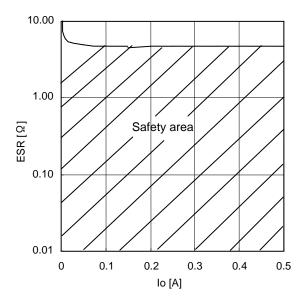


Fig.19 ESR Condencer

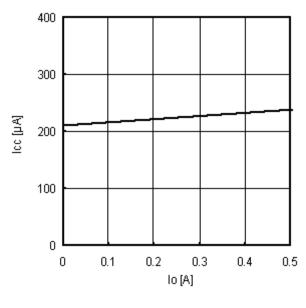


Fig.20 I_O-I_{CC}

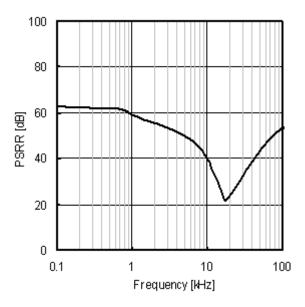


Fig.21 PSRR(I_O=0mA)

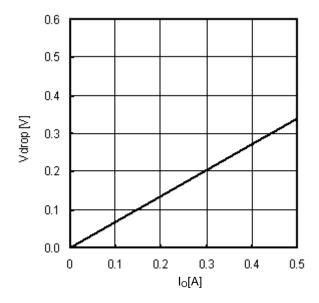


Fig.22 Minimum dropout Voltage 2 (V_{CC}=2.4V, Ta=25°C)

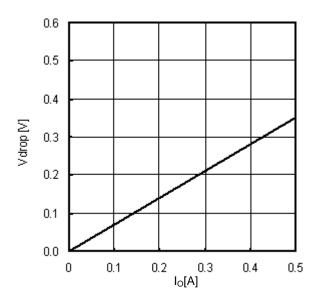


Fig.23 Minimum dropout Voltage 3 (V_{CC}=3.3V, Ta=25°C)

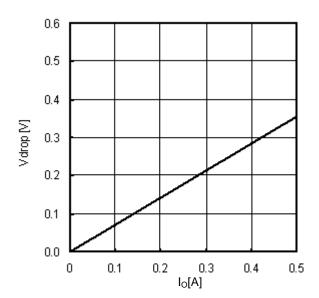
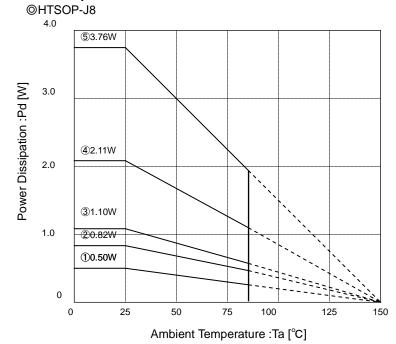


Fig.24 Minimum dropout Voltage 4 (V_{CC}=5.0V, Ta=25°C)

●Power dissipation



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 θ j-a=249.5°C/W
- 2 1-layer (copper foil are :0mm × 0mm)θ j-a=153.2°C/W
- ③ 2-layer (copper foil are :15mm × 15mm) θ j-a=113.6°C/W
- (4) 2-layer (copper foil are :70mm × 70mm) θ j-a=59.2°C/W
- (5) 4-layer (copper foil are :70mm × 70mm) θ j-a=33.3°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)

Tj=Ta+ θ j-a × 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 BDxxIA5WEFJ series is generated from the output Pch FET. Power loss is determined by the total $V_{\rm CC}$ - $V_{\rm O}$ voltage and output current. Be sure to confirm the system input and output voltage as well as the output current conditions in relation to the heat dissipation characteristics of the $V_{\rm CC}$ and $V_{\rm O}$ 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 BDxxIA5WEFJ series) make certain to factor conditions such as substrate size into the thermal design.

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

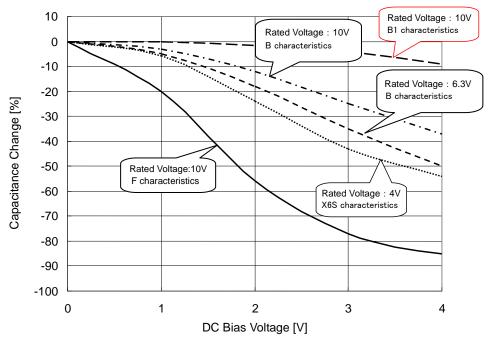
Example) Where $V_{CC}=3.3V$, $V_{O}=2.5V$, $I_{O}(Ave)=0.1A$,

Power consumption [W] =
$$\left\{ 3.3V - 2.5V \right\} \times 0.1A$$

=0.08[W]

●Input-to-Output Capacitor

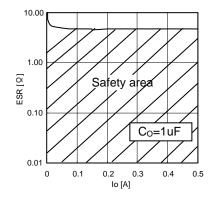
It is recommended that a capacitor (over 1uF) is placed near pins between the input pin and GND as well as the output pin and GND. A capacitor, between input pin and GND, is valid when the power supply impedance is high or trace is long. Also, as for the capacitor between the output pin and GND, the 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)

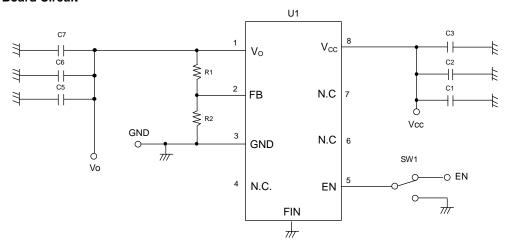
● Equivalent Series Resistance ESR (Output Capacitor)

To prevent oscillations, please attach a capacitor between $V_{\rm O}$ and GND. Capacitors usually have ESR (Equivalent Series Resistance). Operation will be stable in the ESR- $I_{\rm O}$ 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 - Io characteristics

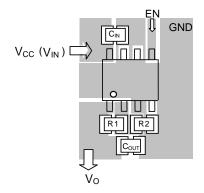
●Evaluation Board Circuit



●Evaluation Board Parts List

addition Board Faits List							
Designation	Value	Part No.	Company	Designation	Value	Part No.	Company
R1	16kΩ	MCR01PZPZF1602	ROHM	C4	-	-	-
R2	$7.5k\Omega$	MCR01PZPZF7501	ROHM	C5	1µF	CM105B105K16A	KYOCERA
R3	-	-	-	C6	-	-	-
R4	1	-	-	C7	-	-	-
R5	-	-	-	C8	-	=	-
R6	1	-	-	C9	-	-	-
C1	1µF	CM105B105K16A	KYOCERA	C10	-	-	-
C2	-	-		U1	-	BD00IA5WEFJ	ROHM
C3	1	-		U2		-	-

Board Layout



PCB layout considerations:

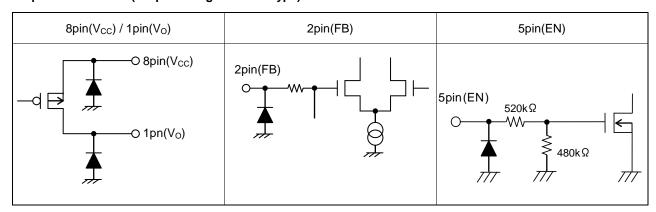
- Input capacitor C_{IN} connected to V_{CC} (Vin) should be placed as close to $V_{CC}(V_{IN})$ pin as possible. Output capacitor C_{OUT} also should be placed as close to IC pin as possible. In case the part is connected to inner layer GND plane, please use several through holes.
- FB pin has comparatively 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

Output voltage can be set by FB pin voltage (0.800V typ.) and external resistance R1, R2.

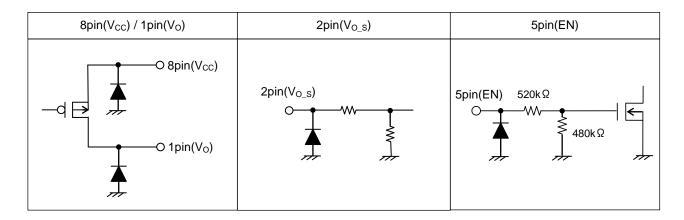
$$V_0 = V_{FB} \times \frac{R1 + R2}{R2}$$

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

●I/O Equivalent Circuits (Output Voltage Vairable type)



●I/O Equivalent Circuits (Output Voltage Fixed 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.

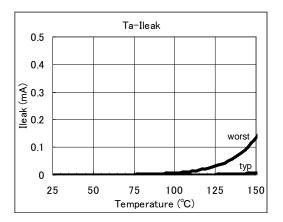
(5) Thermal design

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

(6) Off-leakage at high temperature.

Off-leakage at high temperature may increase because of manufacturing variations.

Design should consider the typical & worst cases shown below.



(7) 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.

(8) 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.

(9) ASO

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

(10) 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.)
BdxxIA5WEFJ	175	15

(11) 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.

(12) Regarding input pin of the IC

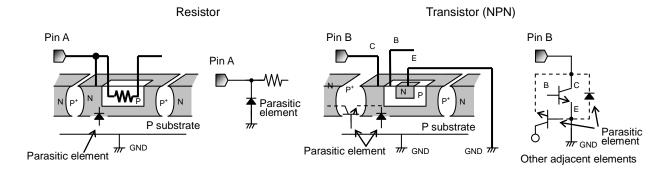
This monolithic IC contains P+ isolation and P substrate layers between adjacent elements in order to keep them isolated.

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.

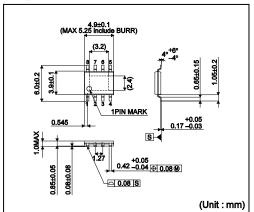


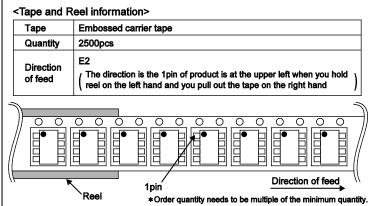
(13) Ground Wiring Pattern.

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.

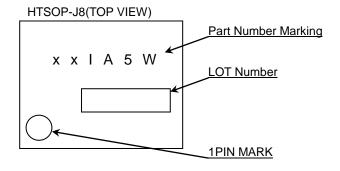
● Physical Dimension Tape and Reel Information

HTSOP-J8





Marking Diagram



XX	Product Name
00	BD00IA5WEFJ
10	BD10IA5WEFJ
12	BD12IA5WEFJ
15	BD15IA5WEFJ
18	BD18IA5WEFJ
25	BD25IA5WEFJ
30	BD30IA5WEFJ
33	BD33IA5WFF.I

Revision History

Date	Revision	Changes
9.Jul.2012	001	New Release
21.Dec.2012	002	The description was modified.
28.Jul.2014	003	Characteristic data change

Notice

Precaution on using ROHM Products

1. 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.

(Note1) Medical Equipment Classification of the Specific Applications

JAPAN	JAPAN USA		CHINA	
CLASSⅢ	CL ACCIII	CLASSIIb	CLASSIII	
CLASSIV	CLASSⅢ	CLASSⅢ	CLASSIII	

- 2. ROHM designs and manufactures its Products subject to strict quality control system. However, semiconductor products can fail or malfunction at a certain rate. Please be sure to implement, at your own responsibilities, adequate safety measures including but not limited to fail-safe design against the physical injury, damage to any property, which a failure or malfunction of our Products may cause. The following are examples of safety measures:
 - [a] Installation of protection circuits or other protective devices to improve system safety
 - [b] Installation of redundant circuits to reduce the impact of single or multiple circuit failure
- 3. Our Products are designed and manufactured for use under standard conditions and not under any special or extraordinary environments or conditions, as exemplified below. Accordingly, ROHM shall not be in any way responsible or liable for any damages, expenses or losses arising from the use of any ROHM's Products under any special or extraordinary environments or conditions. If you intend to use our Products under any special or extraordinary environments or conditions (as exemplified below), your independent verification and confirmation of product performance, reliability, etc, prior to use, must be necessary:
 - [a] Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
 - [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 (Pd) depending on Ambient temperature (Ta). When used in sealed area, confirm the actual ambient 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; if flow soldering method is preferred, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification

Precautions Regarding Application Examples and External Circuits

- 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.
- You agree that application notes, reference designs, and associated data and information contained in this document are presented only as guidance for Products use. Therefore, in case you use such information, you are solely responsible for it and you must exercise your own independent verification and judgment in the use of such information contained in this document. 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 such information.

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).

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.
- 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.

Precaution for Product Label

QR code printed on ROHM Products label is for ROHM's internal use only.

Precaution for Disposition

When disposing Products please dispose them properly using an authorized industry waste company.

Precaution for Foreign Exchange and Foreign Trade act

Since our Products might fall under controlled goods prescribed by the applicable foreign exchange and foreign trade act, please consult with ROHM representative in case of export.

Precaution Regarding Intellectual Property Rights

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General Precaution

- 1. Before you use our Products, you are requested to care fully read this document and fully understand its contents. ROHM shall not be in an y way responsible or liable for failure, malfunction or accident arising from the use of a ny ROHM's Products against warning, caution or note contained in this document.
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BD00IA5WEFJ - Web Page

Distribution Inventory

Part Number	BD00IA5WEFJ
Package	HTSOP-J8
Unit Quantity	2500
Minimum Package Quantity	2500
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes