

1.5A Variable/Fixed Output LDO Regulators


BAxxJC5 Series(Fixed) BA00JC5WT(Variable)

General Description

The BAxxJC5 are low-saturation regulators with an output current of 1.5A and a voltage accuracy of $\pm 1\%$. A broad output voltage range is offered, from 1.5V to 12V, and built-in overcurrent protection and thermal shutdown (TSD) circuits prevent damage due to short-circuiting and overloading, respectively.

Features

- Output voltage accuracy: $\pm 1\%$
- Broad output voltage range available: 1.5V -12V (BAxxJC5 series)
- Low saturation-voltage type with PNP output
- Built-in overcurrent protection circuit
- Built-in thermal shutdown circuit
- Integrated shutdown switch (BA00JC5WT)

Key Specifications

- Input Power Supply Voltage: 16.0V(Max.)
- Output voltage type: BAxxJC5 Series Fixed
BA00JC5WT Variable
- Output current: 1.5A(Max.)
- Shutdown current: (BA00JC5WT) 0 μ A(Typ.)
- Operating temperature range: -40°C to +105°C

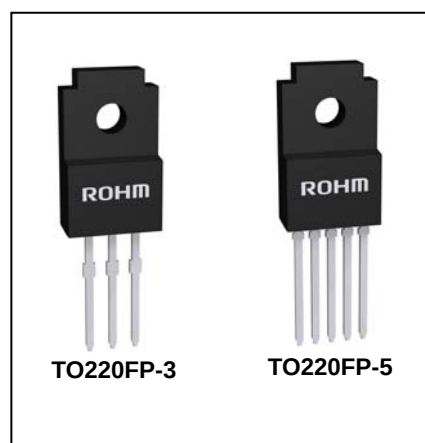
Applications

All electronic devices that use microcontrollers and logic circuits

Packages

TO220FP-3
TO220FP-5

W (Typ.) x D (Typ.) x H (Max.)
10.00mm x 30.50mm x 4.60mm
10.00mm x 30.50mm x 4.60mm



Lineup Matrix

Part Number	Output Voltage (V)												Package
	1.5	1.8	2.5	3.0	3.3	5.0	6.0	6.3	8.0	9.0	12.0	Variable	
BAxxJC5T	○	○	○	○	○	○	○	○	○	○	○	-	TO220FP-3
BAxxJC5WT	-	-	-	-	-	-	-	-	-	-	-	○	TO220FP-5

Ordering Information

B A x x J C 5 x x -

Part number	Output voltage 00:Variable Other:Fixed	Current capacity JC5:1.5A	Shutdown switch W : Include None:without	Package T : TO220FP-3 TO220FP-5
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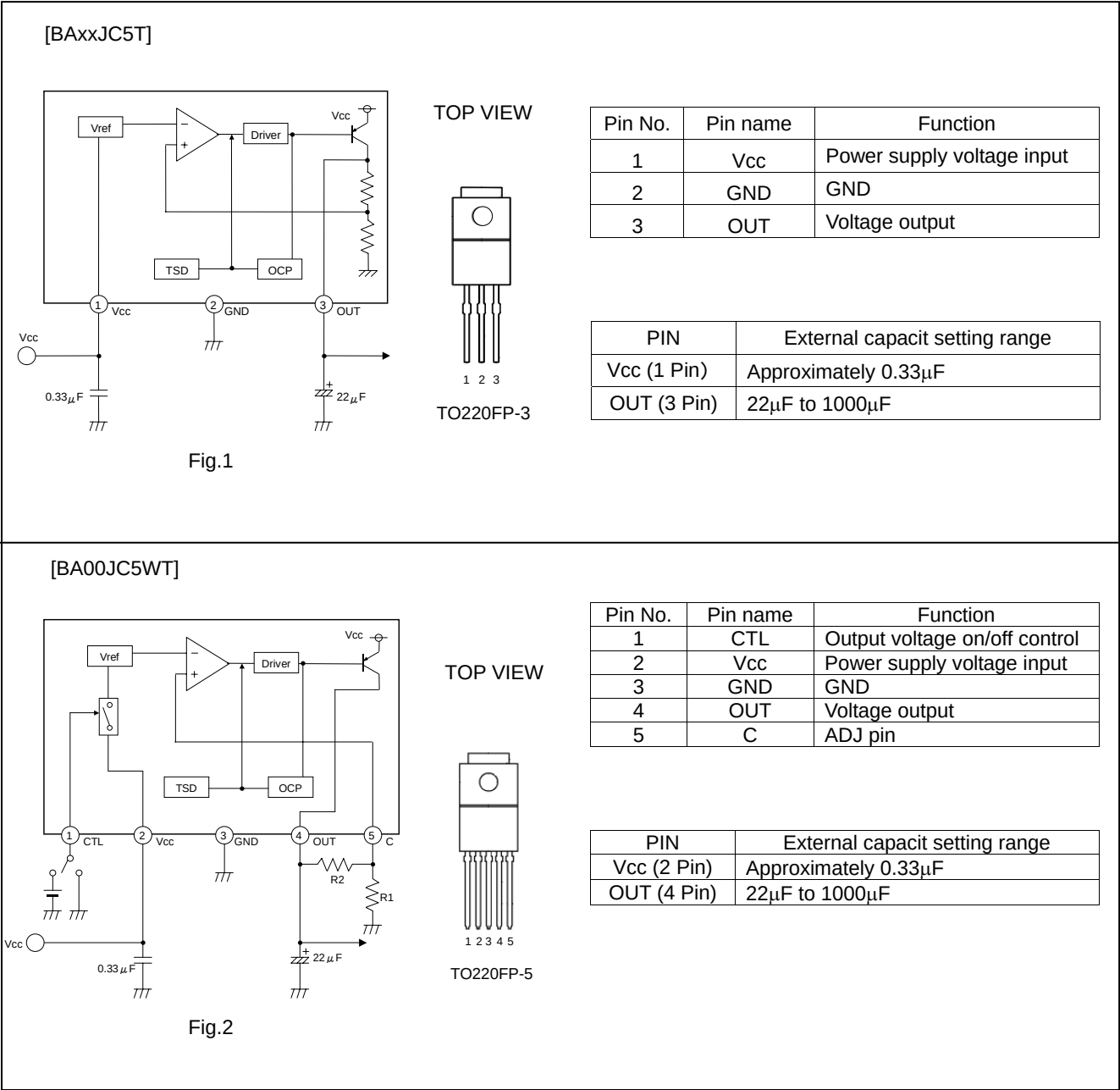
Packaging and forming specification
None:Tube Contener

○Product structure : Silicon monolithic integrated circuit ○This product is not designed protection against radioactive rays.

●Lineup

Maximum output current (Max.)	Shutdown Switch	Package		Output voltage(Typ.)	Orderable Part Number
1.5A	No Switch	TO220FP-3	Tube of 500	1.5 V	BA15JC5T
				1.8 V	BA18JC5T
				2.5 V	BA25JC5T
				3.0 V	BA30JC5T
				3.3 V	BA33JC5T
				5.0 V	BA50JC5T
				6.0 V	BA60JC5T
				6.3 V	BA63JC5T
				8.0 V	BA80JC5T
				9.0 V	BA90JC5T
				12.0 V	BAJ2JC5T
	With Switch	TO220FP-5		Variable	BA00JC5WT

●Block Diagrams / Standard Example Application Circuits / Pin Configurations / Pin Descriptions



●Absolute Maximum Ratings (Ta = 25°C)

Parameter		Symbol	Ratings	Unit
Power supply voltage		V _{CC}	18 ^{*1}	V
Power dissipation	TO220FP-3	P _d	2000 ^{*2}	mW
	TO220FP-5		2000 ^{*2}	
Operating temperature range		T _{opr}	-40 to +105	°C
Ambient storage temperature		T _{stg}	-55 to +150	°C
Maximum junction temperature		T _{jmax}	150	°C

*1 Must not exceed P_d

*2 Derated at 16mW/°C at Ta>25°C

●Recommended Operating Ratings

Parameter	Symbol	Ratings		Unit
		Min.	Max.	
Input power supply voltage	V _{CC} ^{*3}	3.0	16.0	V
Input power supply voltage	V _{CC} ^{*4}	V _o + 1.0	16.0	V
Output current	I _o	-	1.5	A
Variable output voltage setting value	V _o	1.5	12	V

*3 When output voltage is 1.5 V, 1.8 V, or 2.5 V.

*4 When output voltage is 3.0 V or higher.

●Electrical Characteristics

BAXxJC5T

Unless otherwise specified, Ta=25°C, V_{CC}=3.3V(V_o=1.5V, 1.8V, 2.5V), V_{CC}=5.0V(V_o=3.0V, 3.3V), V_{CC}=V_o+3.0V(V_o≥5.0V)

Parameter	Symbol	Limit			Unit	Conditions
		Min	Typ	Max		
Bias Current	I _b	—	0.5	0.9	mA	I _o =0mA
Output Voltage	V _o	V _o (T) × 0.99	V _o (T)	V _o (T) × 1.01	V	I _o =200mA
Dropout Voltage ^{*5}	ΔV _d	—	0.3	0.5	V	I _o =500mA, V _{CC} =V _o × 0.95V
Peak Output Current	I _o	1.5	—	—	A	
Ripple Rejection	R.R.	44	55	—	dB	f=120Hz, e _{in} ^{*8} =-20dBV I _o =100mA, V _o ≤6.3V
		43	53	—		f=120Hz, e _{in} ^{*8} =-20dBV I _o =100mA, V _o =8.0V
		42	52	—		f=120Hz, e _{in} ^{*8} =-20dBV I _o =100mA, V _o =9.0V
		40	50	—		f=120Hz, e _{in} ^{*8} =-20dBV I _o =100mA, V _o =12.0V
Line Regulation ^{*6}	Reg.I	—	5	60	mV	V _{CC} =V _o +1.0V→16V, I _o =200mA
Load Regulation	Reg.L	—	5	60	mV	I _o =5mA→1.5A
Temperature Coefficient of Output Voltage ^{*7}	T _{cvo}	—	±0.02	—	%/°C	I _o =5mA, T _j =0 to 125°C
Output Short Current	I _{os}	—	0.7	—	A	V _{CC} =16V(V _o ≤3.3V)
		—	0.8	—		V _{CC} =16V(V _o ≥5.0V)

V_o(T): Output Voltage

*5 V_o≥3.3V

*6 V_{CC}=3.0V→16V (V_o=1.5V, 1.8V, 2.5V)

*7 Not 100% tested

*8 e_{in}=Input Voltage Ripple

●Electrical Characteristics - continued

BA00JC5WT

Unless otherwise specified, Ta = 25°C, Vcc = 3.3 V, VCTL = 3 V, Vo=2.5V

Parameter	Symbol	Limit			Unit	Conditions
		Min.	Typ.	Max.		
Shut Down Current	I _{sd}	—	0	10	μA	V _{CTL} =0V, I _o =0mA (OFF MODE)
Bias Current	I _b	—	0.5	0.9	mA	I _o =0mA
C pin Voltage	V _c	1.237	1.250	1.263	V	I _o =50mA
Dropout Voltage ¹	ΔV _d	—	0.3	0.5	V	I _o =500mA, V _{cc} =2.5V
Peak Output	I _o	1.5	—	—	A	
Ripple Rejection	R.R.	45	55	—	dB	f=120Hz, e _{in} ^{*9} =-20dBV I _o =100mA
Line Regulation	Reg.I	—	5	60	mV	V _{cc} =4.5V→16V, I _o =200mA
Load Regulation	Reg.L	—	5	60	mV	I _o =5mA→1.5A
Temperature Coefficient of Output Voltage ^{*10}	T _{cvo}	—	±0.02	—	%/°C	I _o =5mA, T _j =0~125°C
Output Short Current	I _{os}	—	0.6	—	A	V _{cc} =16V
CTL ON Mode Voltage	V _{th1}	2.0	—	—	V	ACTIVE MODE, I _o =0mA
CTL OFF Mode Voltage	V _{th2}	—	—	0.8	V	OFF MODE, I _o =0mA
CTL Input Current	I _{in}	40	80	130	μA	I _o =0mA

*9 e_{in}=Input Voltage Ripple

*10 Not 100% tested

● Typical Performance Curves

(Unless otherwise specified, $T_a = 25^\circ\text{C}$; $V_{cc} = 8\text{V}$; $V_{CTL} = 3\text{V}$; $I_o = 0\text{mA}$)

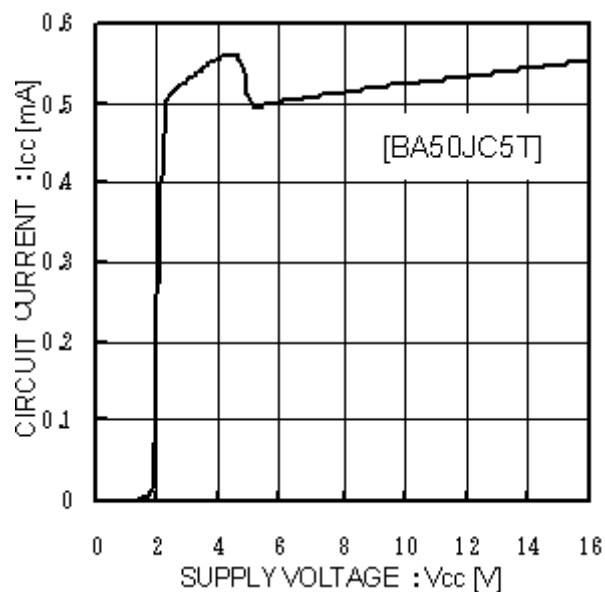


Fig.3
Circuit Current

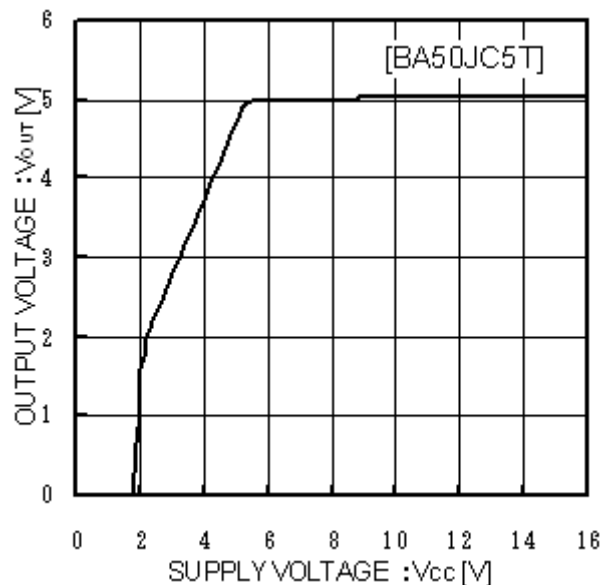


Fig.4
Input Stability ($I_o = 0\text{mA}$)

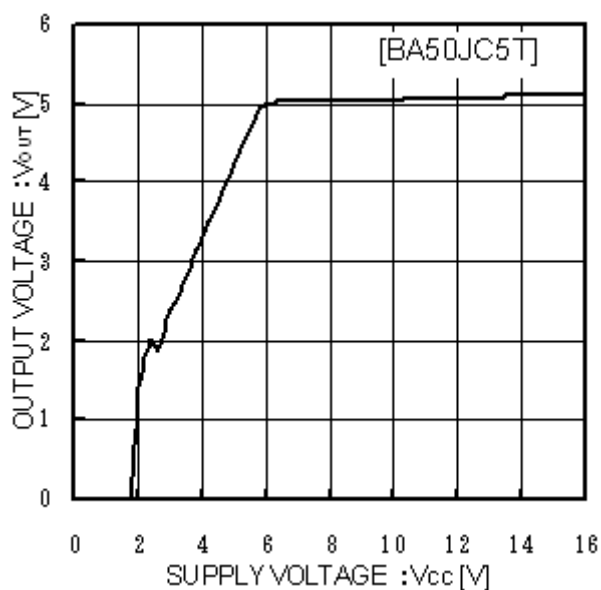


Fig.5
Input Stability
($I_o = 1.5\text{A}$)

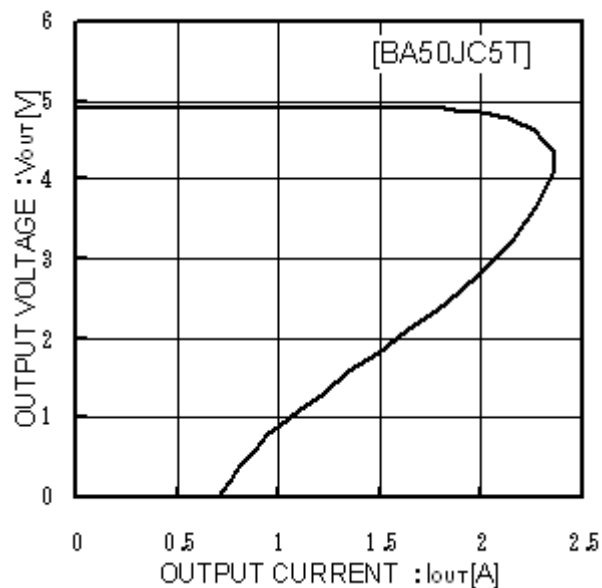
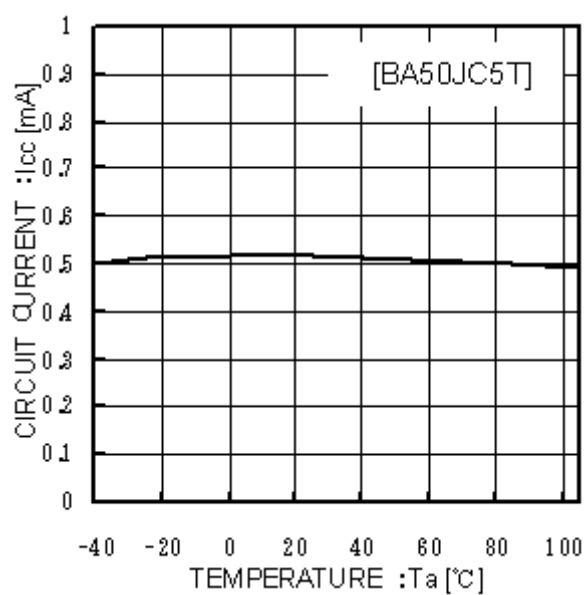
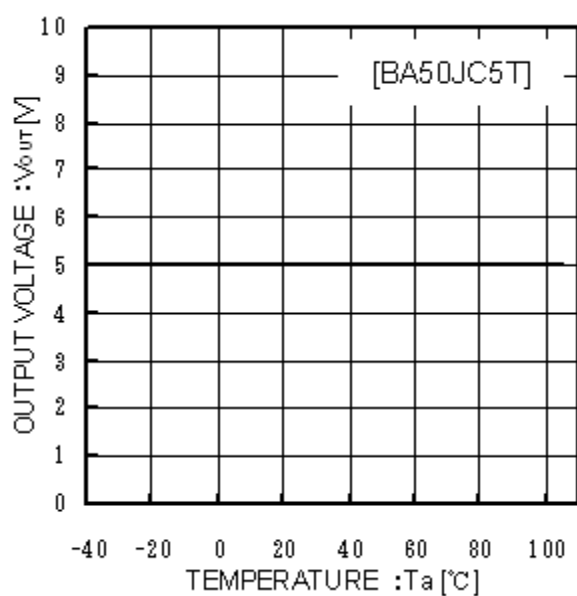
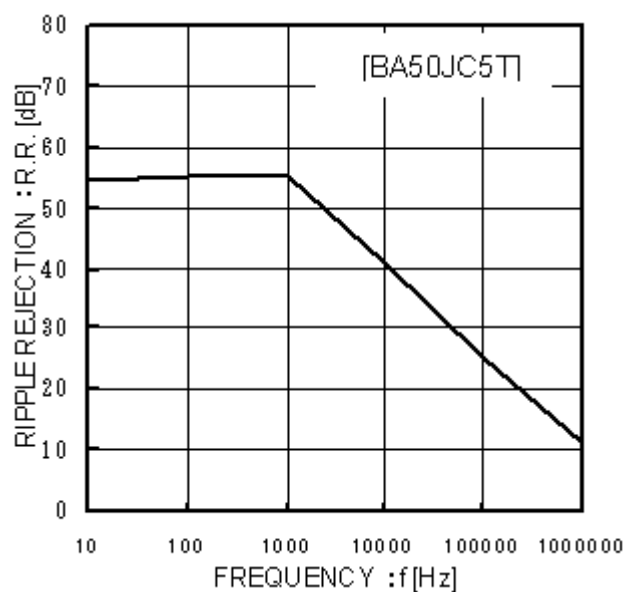
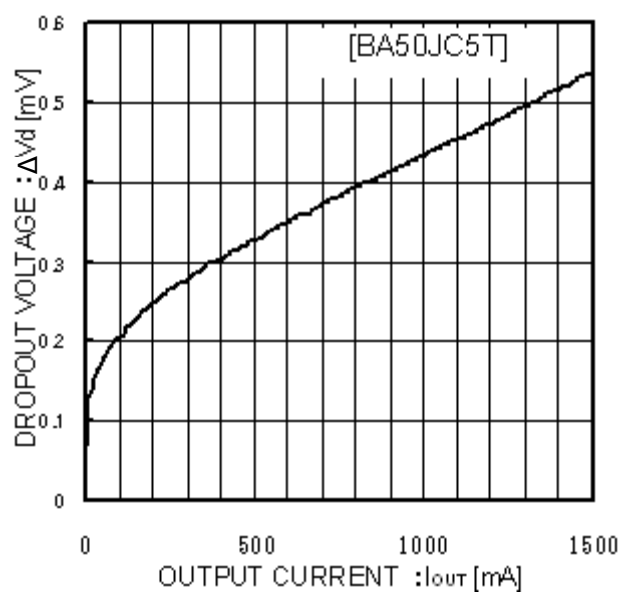


Fig.6
Load Stability

● Typical Performance Curves - continued



● Typical Performance Curves - continued

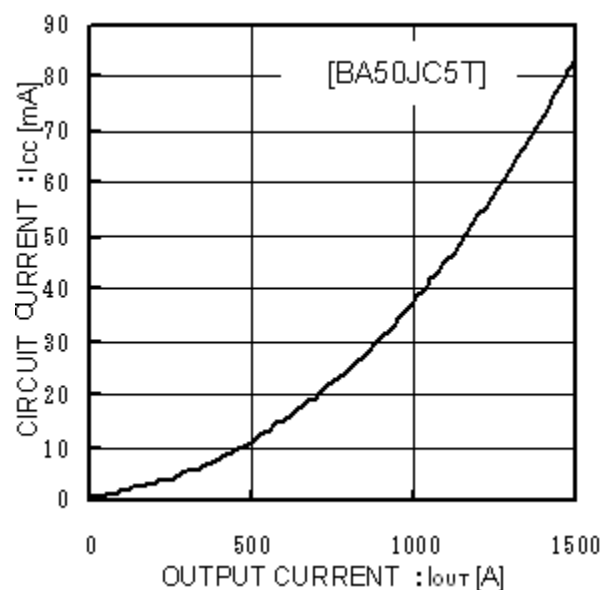


Fig.11
Circuit Current Classified by Load

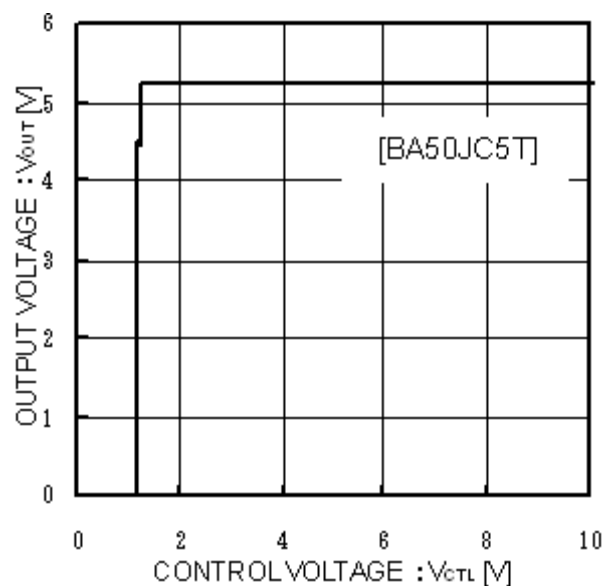


Fig.12
CTL Voltage vs Output Voltage

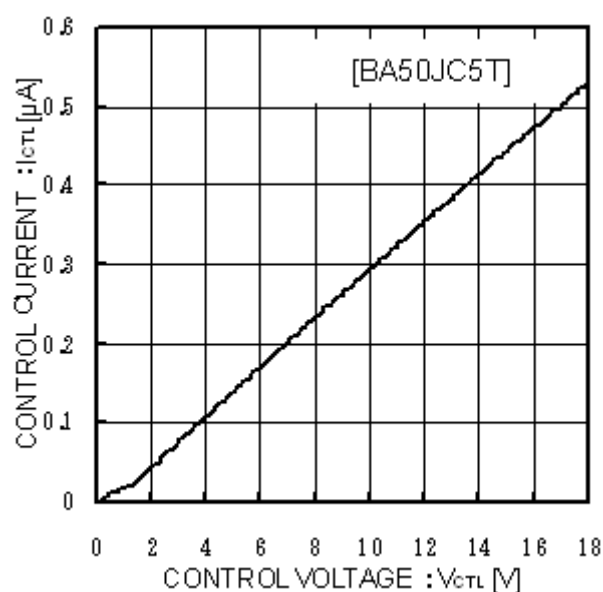


Fig.13
CTL Voltage vs CTL Current

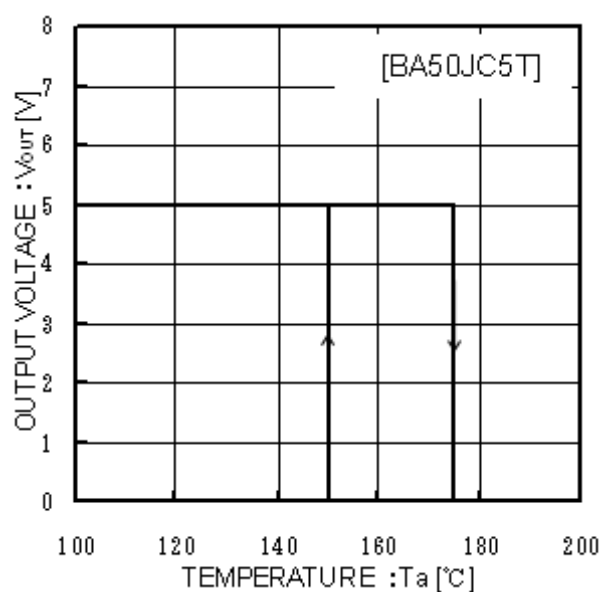


Fig.14
Thermal Shutdown Circuit
($I_o = 5 \text{ mA}$)

● I/O equivalence circuit

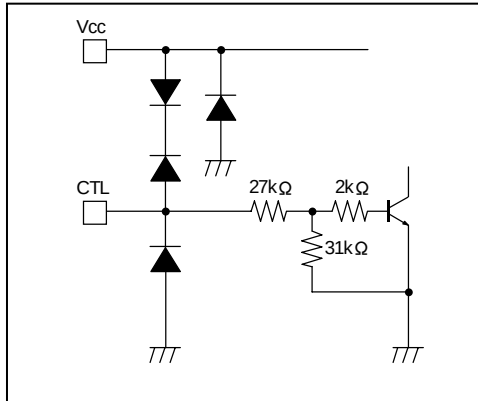
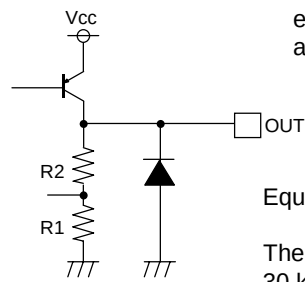


Fig.15



* For the BA00JC5WT, connect R1 and R2 externally between the ADJ and GND pins and between the OUT and ADJ pins.

Equation: $V_o = V_c \times (R_1 + R_2) / R_1$
($V_c = 1.25V$ (Typ.))
The recommended R1 value is approximately 30 kΩ to 150 kΩ.

Fig.16

● Power Dissipation

- TO220FP-3/TO220FP-5

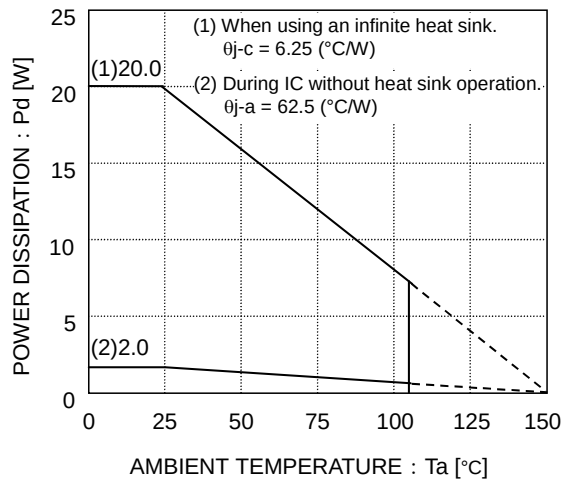


Fig.17

The characteristics of the IC are greatly influenced by the operating temperature. If the temperature exceeds the maximum junction temperature T_{jmax} , deterioration or damage may occur. Implement proper thermal designs to ensure that power dissipation is within the permissible range in order to prevent instantaneous damage resulting from heat and maintain the reliability of the IC for long-term operation.

The following method is used to calculate the power consumption P_c (W):

$$P_c = (V_{cc} - V_o) \times I_o + V_{cc} \times I_{cca}$$

Power dissipation $P_d \geq P_c$

V_{cc} : Input voltage
 V_o : Output voltage
 I_o : Load current
 I_{cca} : Circuit current

The load current I_o is calculated:

$$I_o \leq \frac{P_d - V_{cc} \times I_{cca}}{V_{cc} - V_o}$$

Calculation Example:

$V_{cc} = 6.0V$ and $V_o = 5.0V$ at $T_a = 85^\circ C$

$$I_o \leq \frac{1.040 - 6.0 \times I_{cca}}{6.0 - 5.0}$$

$$I_o \leq 860mA \text{ (} I_{cca} \approx 30mA \text{)}$$

$$\left(\begin{array}{l} \theta_{ja} = 62.5^\circ C/W \rightarrow -16.0mW/^\circ C \\ 25^\circ C = 2000mW \rightarrow 85^\circ C = 1040mW \end{array} \right)$$

Refer to the above and implement proper thermal designs so that the IC will not be used under excessive power dissipation conditions under the entire operating temperature range.

The power consumption P_c of the IC in the event of shorting (i.e. the V_o and GND pins are shorted) can be obtained from the following equation: $P_c = V_{cc} \times (I_{cca} + I_{short})$ (I_{short} : short current)

●Peripheral Circuit Considerations

• Vcc pin

Insert a capacitor (0.33 μ F approx.) between V_{CC} and GND.

The capacitance will vary depending on the application.

Use a suitable capacitance and implement designs with sufficient margins.

• GND pin

Verify that there is no potential difference between the ground of the application board and the IC.

If there is a potential difference, the set voltage will not be output accurately, resulting in unstable IC operation.

Therefore, lower the impedance by designing the ground pattern as wide and as short as possible.

• CTL terminal

The CTL terminal turns on at an operating power supply voltage of 2.0 V or higher and turns off at 0.8 V or lower.

There is no particular order when turning the power supply and CTL terminals on or off.

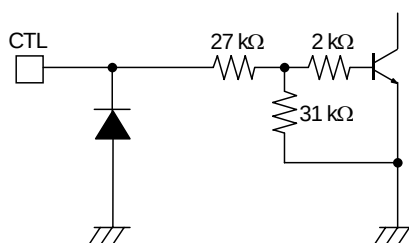


Fig.18 Input Equivalent Circuit

●Vo Terminal

Insert a capacitor between the V_o and GND pins in order to prevent output oscillation.

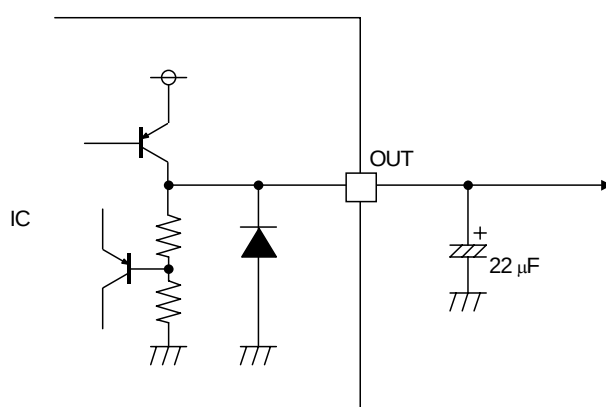


Fig.19 Output Equivalent Circuit

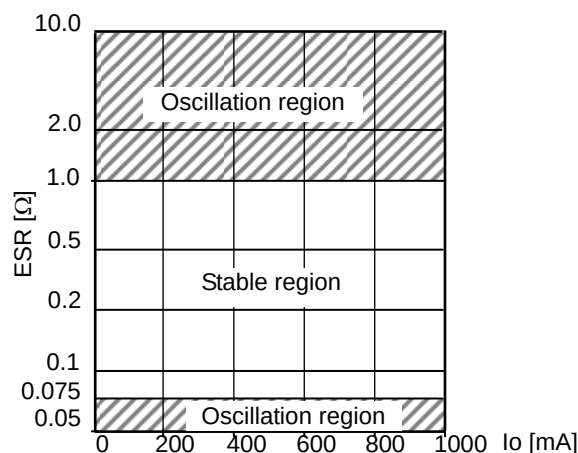


Fig.20 IO vs. ESR

The capacitance may vary greatly with temperature changes, thus making it impossible to completely prevent oscillation. Therefore, use a tantalum aluminum electrolytic capacitor with a low ESR (Equivalent Serial Resistance). The output will oscillate if the ESR is too high or too low, so refer to the ESR characteristics in Fig.20 and operate the IC within the stable region. Use a capacitor within a capacitance between 22 μ F and 1,000 μ F.

●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 devices, thus making impossible to identify breaking mode, such as a short circuit or an open circuit. If any over rated values will expect to exceed the absolute maximum ratings, consider adding circuit protection devices, such as fuses.

2. **GND voltage**

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

3. **Thermal design**

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

4. **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.

5. **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.

6. **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.

7. **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

8. **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.

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.

10. **Overcurrent Protection Circuit**

An overcurrent protection circuit is incorporated in order to prevention destruction due to short-time overload currents. Continued use of the protection circuits should be avoided. Please note that the current increases negatively impact the temperature.

11. **Damage to the internal circuit or element may occur when the polarity of the Vcc pin is opposite to that of the other pins in applications.** (I.e. Vcc is shorted with the GND pin while an external capacitor is charged.) Use a maximum capacitance of 1000μF for the output pins. Inserting a diode to prevent back-current flow in series with Vcc or bypass diodes between Vcc and each pin is recommended.

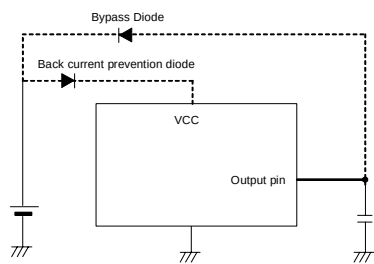


Fig.21 Bypass Diode

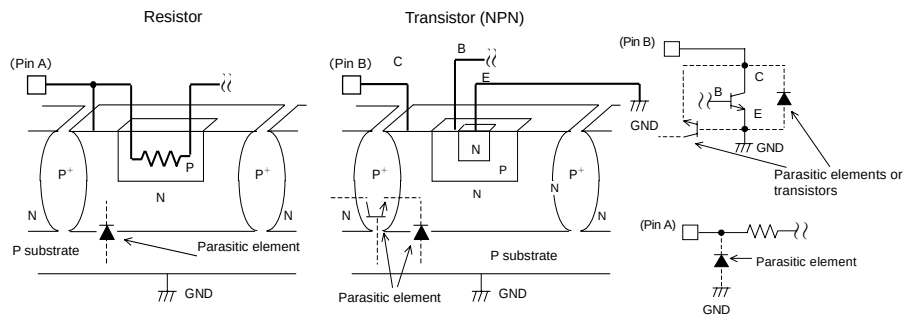
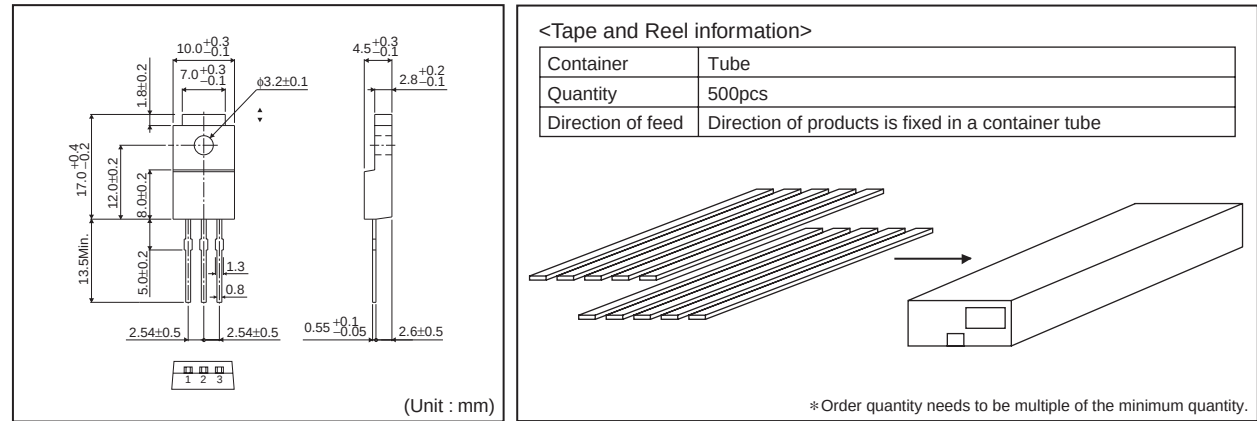


Fig.22 Example of Simple Bipolar IC Architecture

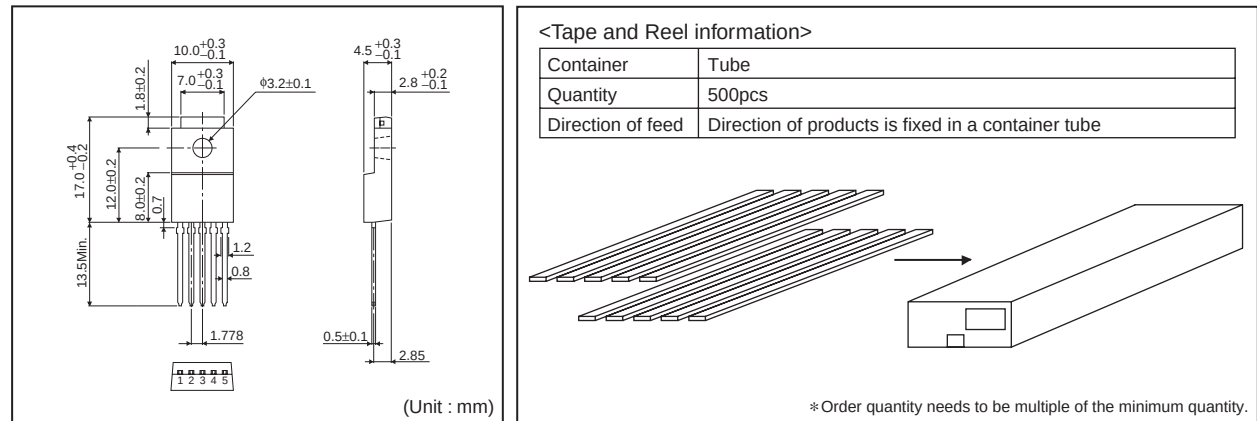
Status of this document
The Japanese version of this document is formal specification. A customer may use this translation version only for a reference to help reading the formal version.
If there are any differences in translation version of this document formal version takes priority.

●Physical Dimension Tape and Reel Information

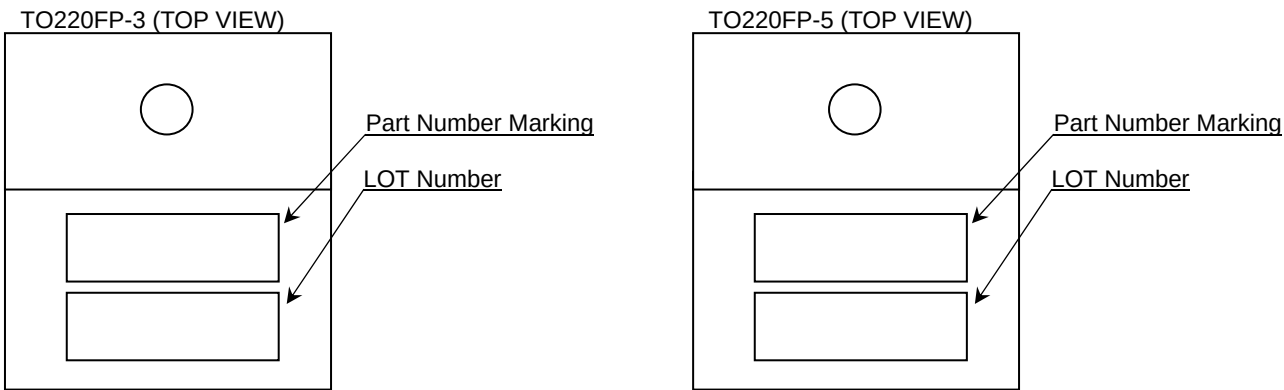
TO220FP-3



TO220FP-5



●Marking Diagrams



Orderable Part Number	Package	Part Number Marking
BA15JC5T	TO220FP-3	BA15JC5
BA18JC5T		BA18JC5
BA25JC5T		BA25JC5
BA30JC5T		BA30JC5
BA33JC5T		BA33JC5
BA50JC5T		BA50JC5
BA60JC5T		BA60JC5
BA63JC5T		BA63JC5
BA80JC5T		BA80JC5
BA90JC5T		BA90JC5
BAJ2JC5T		BAJ2JC5
BA00JC5WT	TO220FP-5	00JC5W

●Revision History

Date	Revision	Changes
26.Jun.2012	001	New Release

Notice

●General Precaution

- 1) Before you use our Products, you are requested to carefully read this document and fully understand its contents. ROHM shall not be in any way responsible or liable for failure, malfunction or accident arising from the use of any ROHM's Products against warning, caution or note contained in this document.
- 2) All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using ROHM's Products, please confirm the latest information with a ROHM sales representative.

●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, 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.
- 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

- 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.
- 2) 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.
- 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.

●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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●Other Precaution

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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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