

DC Brushless Fan Motor Drivers

Multifunction Single-phase Full-wave Fan Motor Driver



BD6726FU

●General description

BD6726FU is a pre-driver that controls the motor drive part composed of the power transistors. Moreover, because the speed feedback function is installed, it is the best for the motor drive with high rotational accuracy.

●Features

- Pre-driver for external power transistors
- Speed feedback controllable by PWM input
- PWM soft switching
- Soft start
- Quick start
- Current limit
- Lock protection and automatic restart
- Rotation speed pulse signal (FG) output

●Application

- Fan motors for general consumer equipment of Server, and desktop PC, etc.

●Package

SSOP-C20

W (Typ.) x D (Typ.) x H (Max.)
5.00mm x 6.40mm x 1.35mm



●Absolute maximum ratings

Parameter	Symbol	Limit	Unit
Supply voltage	Vcc	20	V
Power dissipation	Pd	874.7 ^{*1}	mW
Operating temperature range	Topr	-40 to +100	°C
Storage temperature range	Tstg	-55 to +150	°C
High side output voltage	Voh	36	V
Low side output voltage	Vol	15	V
Low side output current	Iol	10	mA
Rotation speed pulse signal (FG) output voltage	Vfg	20	V
Rotation speed pulse signal (FG) output current	I _{fg}	10	mA
Reference voltage (REF) output current	I _{ref}	12	mA
Hall bias (HB) output current	I _{hb}	12	mA
Input voltage (H+, H-, CS, P _W MIN)	V _{in}	7	V
Input source current (ICT, SHIFT)	I _{in}	100	μA
Junction temperature	T _j	150	°C

*1 Reduce by 7.0mW/°C over Ta=25°C. (On 70.0mmx70.0mmx1.6mm glass epoxy board)

●Recommended operating conditions

Parameter	Symbol	Limit	Unit
Operating supply voltage range	Vcc	5.0 to 17.0	V
Operating input voltage range 1 (H+, H-) (more than Vcc=9V)	Vin1	0 to 7	V
Operating input voltage range 1 (H+, H-) (less than Vcc=9V)		0 to Vcc-2	V
Operating input voltage range 2 (P _W MIN) (more than Vcc=7V)	Vin2	0 to 6.5	V
Operating input voltage range 2 (P _W MIN) (less than Vcc=7V)		0 to Vref	V
Operating input voltage range 3 (MIN)	Vin3	0 to Vref	V
Operating input voltage range 4 (FIL)	Vin4	0 to Vfilh	V

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

●Pin configuration

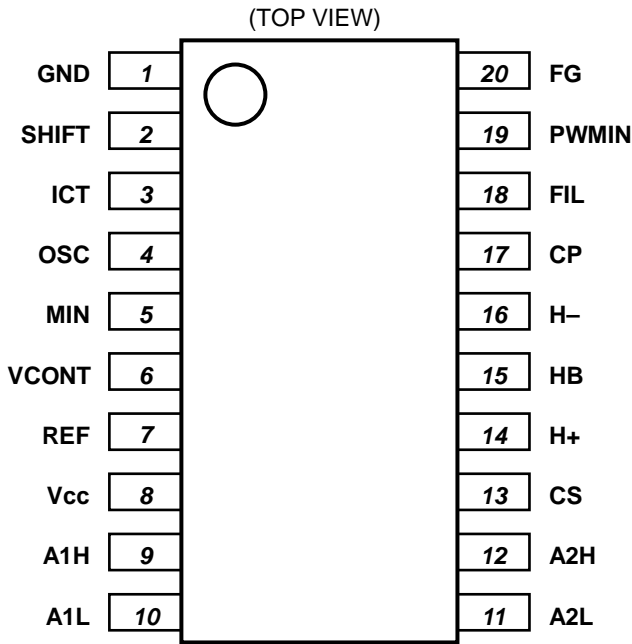


Fig.1 Pin configuration

●Pin description

P/No.	T/Name	Function
1	GND	Ground terminal
2	SHIFT	Offset current setting resistor connecting terminal
3	ICT	Current setting resistor connecting terminal
4	OSC	Oscillating capacitor connecting terminal
5	MIN	Minimum output duty setting terminal
6	VCONT	Integrating output terminal (Speed control terminal)
7	REF	Reference voltage output terminal
8	Vcc	Power supply terminal
9	A1H	High side output terminal 1
10	A1L	Low side output terminal 1
11	A2L	Low side output terminal 2
12	A2H	High side output terminal 2
13	CS	Output current detection terminal
14	H+	Hall + input terminal
15	HB	Hall bias terminal
16	H-	Hall - input terminal
17	CP	Pulse width setting capacitor connecting terminal
18	FIL	Pulse smoothing capacitor connecting terminal
19	PWMIN	PWM pulse input terminal
20	FG	Speed pulse signal output terminal

●Block diagram

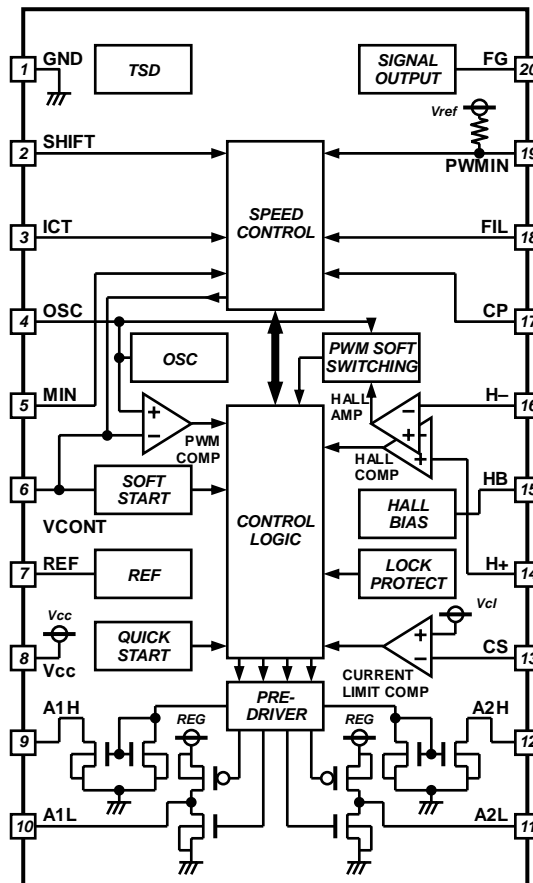


Fig.2 Block diagram

● I/O truth table

Hall input		Driver output				
H+	H-	A1H	A1L	A2H	A2L	FG
H	L	Hi-Z	H	L	L	Hi-Z
L	H	L	L	Hi-Z	H	L

H; High, L; Low, Hi-Z; High impedance
FG output is open-drain type.

● Electrical characteristics (Unless otherwise specified Ta=25°C, Vcc=12V)

Parameter	Symbol	Limit			Unit	Conditions	Ref. data
		Min.	Typ.	Max.			
Circuit current	I _{cc}	3.0	5.4	8.0	mA		Fig.3
Hall input hysteresis voltage	V _{hys}	±5	±10	±15	mV		Fig.4
High side output current	I _{oh}	5.0	10.5	17.0	mA	V _{oh} =12V	Fig.5
High side output leak current	I _{ohl}	-	-	10	μA	V _{oh} =36V	Fig.6
Low side output high voltage	V _{olh}	9.3	9.5	-	V	I _{ol} =-5mA	Fig.7, 8
Low side output low voltage	V _{oll}	-	0.5	0.7	V	I _{ol} =5mA	Fig.9, 10
Lock detection ON time	T _{on}	0.18	0.30	0.42	s		Fig.11
Lock detection OFF time	T _{off}	3.6	6.0	8.4	s		Fig.12
FG output low voltage	V _{fgl}	-	-	0.3	V	I _f _g =5mA	Fig.13, 14
FG output leak current	I _{fgl}	-	-	10	μA	V _f _g =17V	Fig.15
OSC high voltage	V _{osch}	2.3	2.5	2.7	V		Fig.16
OSC low voltage	V _{oscl}	0.8	1.0	1.2	V		Fig.16
OSC charge current	I _{osc}	-50	-32	-20	μA		Fig.17
OSC discharge current	I _{dosc}	20	32	50	μA		Fig.17
Reference voltage	V _{ref}	4.6	5.0	5.4	V	I _{ref} =-2mA	Fig.18, 19
Hall bias voltage	V _{hb}	1.3	1.5	1.7	V	I _{hb} =-2mA	Fig.20, 21
Current limit setting voltage	V _{cl}	130	160	190	mV		Fig.22
MIN input bias current	I _{min}	-	-	-1.0	μA	V _{min} =0V	Fig.23
CS input bias current	I _{cs}	-	-	-1.0	μA	V _{cs} =0V	Fig.24
PWMIN input bias current	I _{pwmin}	-35	-25	-15	μA	V _{pwmin} =0V	Fig.25
PWMIN input high voltage	V _{pwmh}	2.3	-	6.5	V		Fig.26
PWMIN input low voltage	V _{pwml}	0.0	-	1.0	V		Fig.26
FIL output high voltage	V _{filh}	1.3	1.5	1.7	V	V _{pwmin} =0V	Fig.27
FIL output source current	I _{filh}	-25	-15	-10	μA	V _{pwmin} =0V	Fig.28
FIL output sink current	I _{fill}	10	15	25	μA	V _{pwmin} =V _{ref}	Fig.28
VCONT charge current	I _{cvcont}	-145	-100	-60	μA		Fig.29
VCONT discharge current	I _{dvcont}	7	11	16	μA		Fig.30
VCONT charge-discharge current ratio	R _{vcont}	9.8	10.1	10.4	-	R _{vcont} = (I _{cvcont} +I _{dvcont})/I _{dvcont}	Fig.31
Soft start time	T _{ss}	1.2	2.0	2.8	s		Fig.32

About a current item, define the inflow current to IC as a positive notation, and the outflow current from IC as a negative notation.

● Typical performance curves(Reference data)

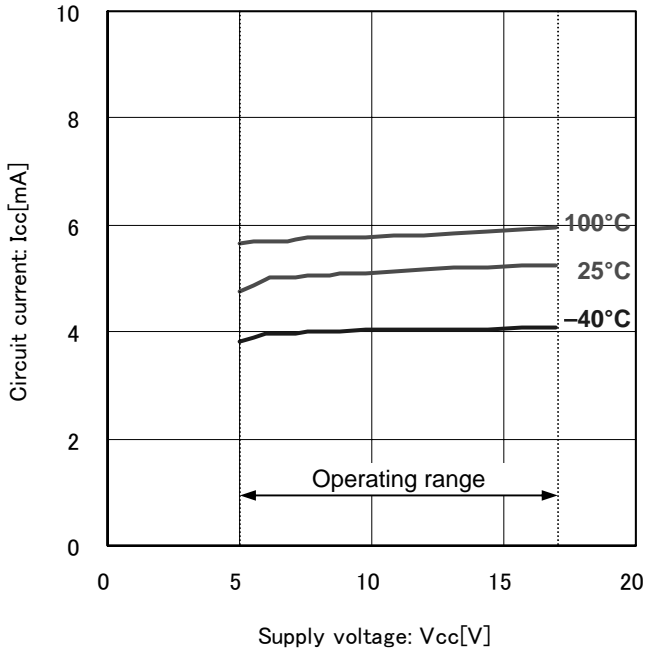


Fig.3 Circuit current

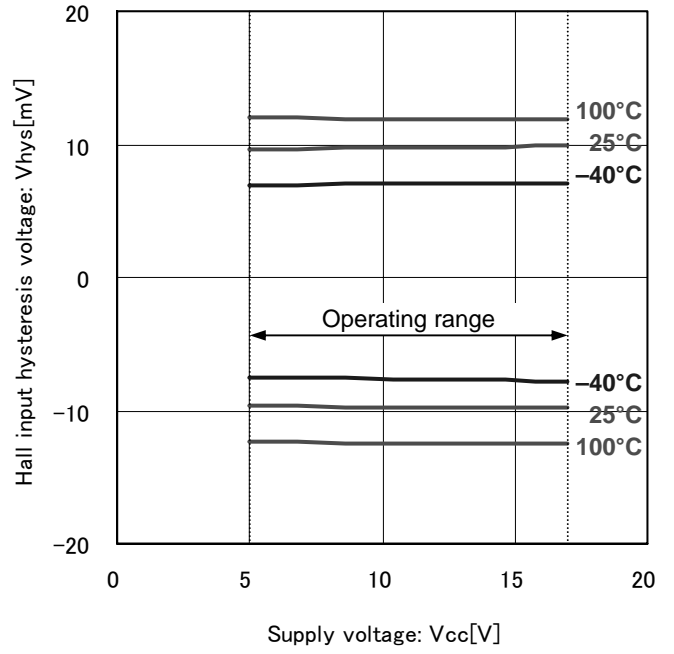


Fig.4 Hall input hysteresis voltage

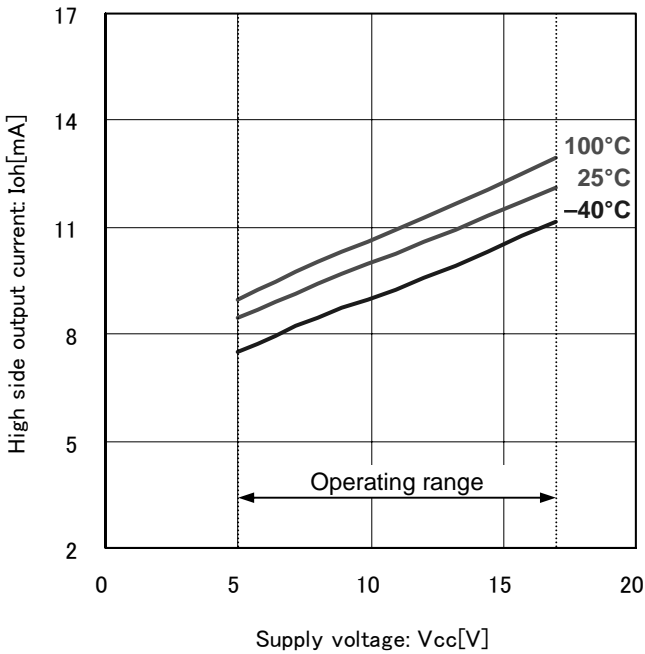


Fig.5 High side output current

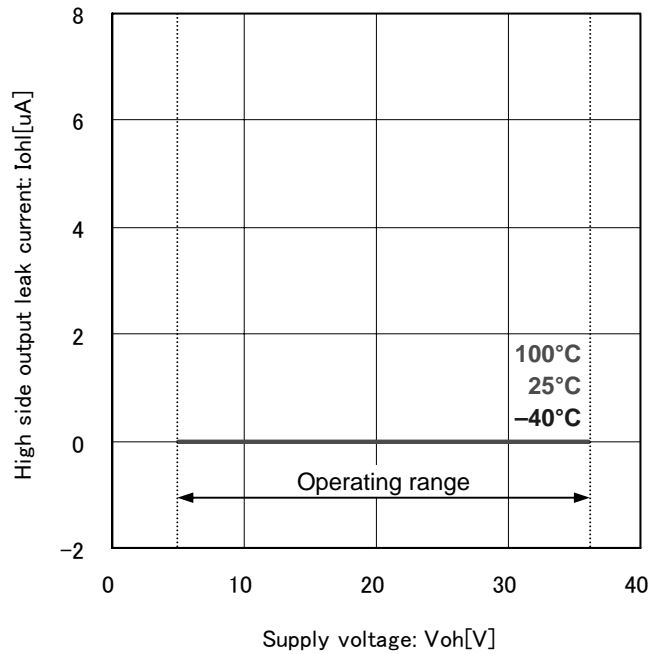


Fig.6 High side output leak current

● Typical performance curves(Reference data)

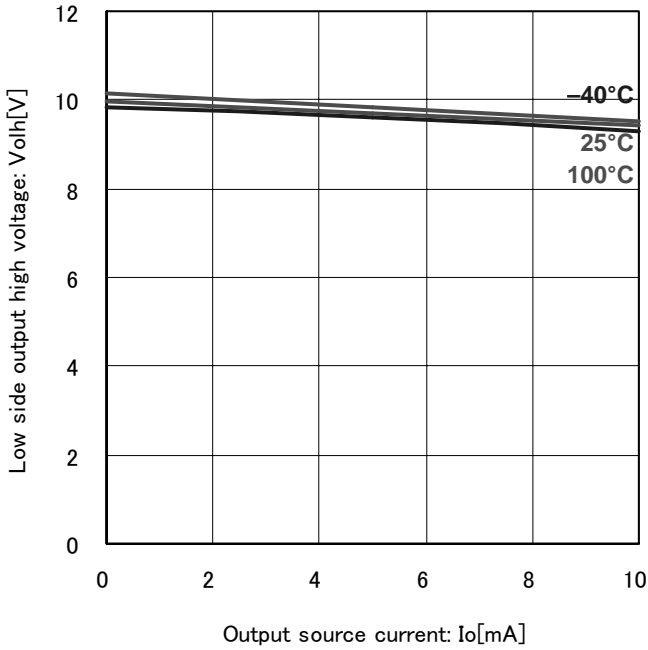


Fig.7 Low side output high voltage (V_{cc}=12V)

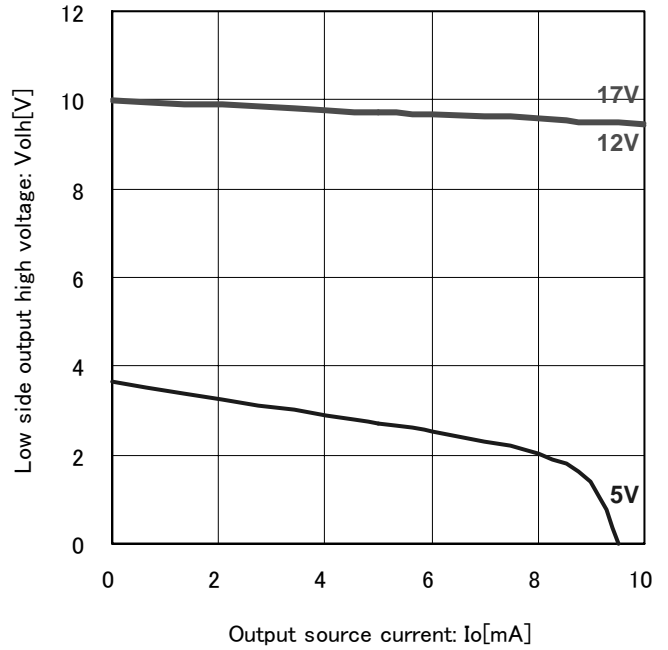


Fig.8 Low side output high voltage (T_a=25°C)

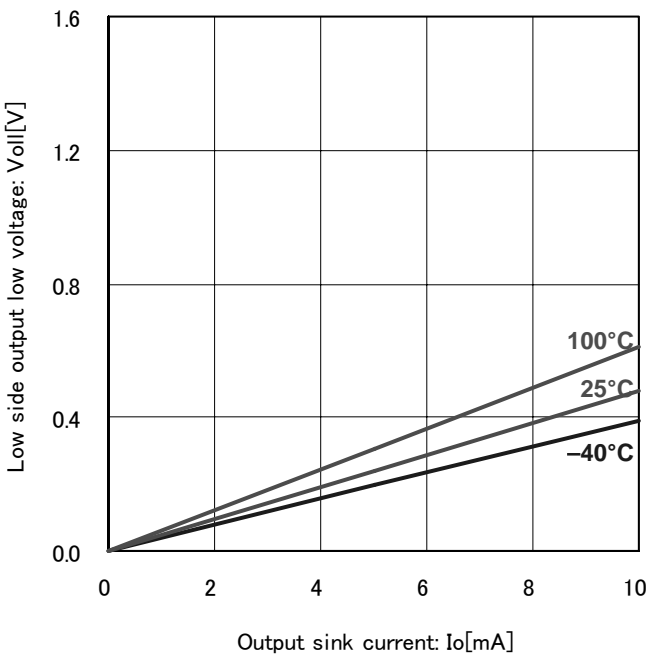


Fig.9 Low side output low voltage (V_{cc}=12V)

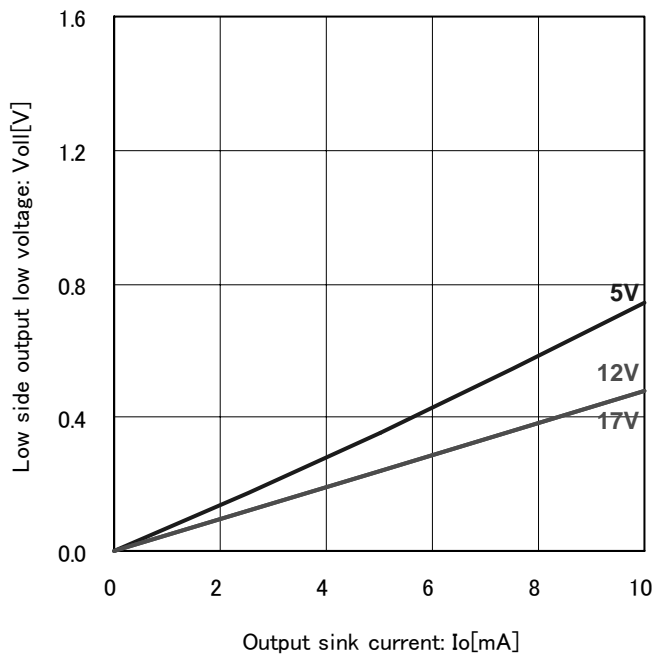


Fig.10 Low side output low voltage (T_a=25°C)

● Typical performance curves(Reference data)

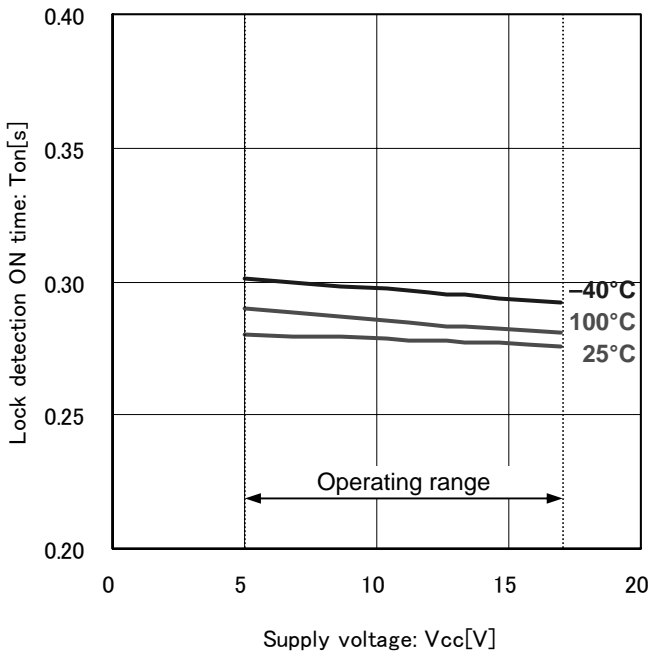


Fig.11 Lock detection ON time

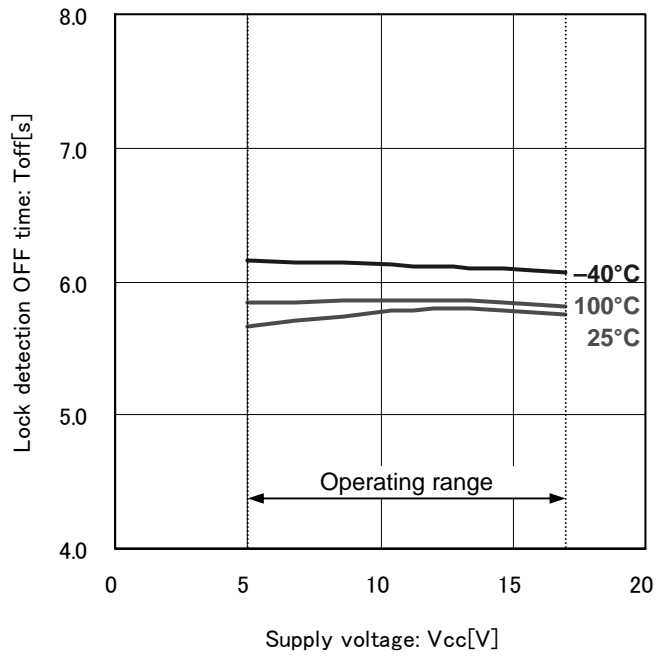


Fig.12 Lock detection OFF time

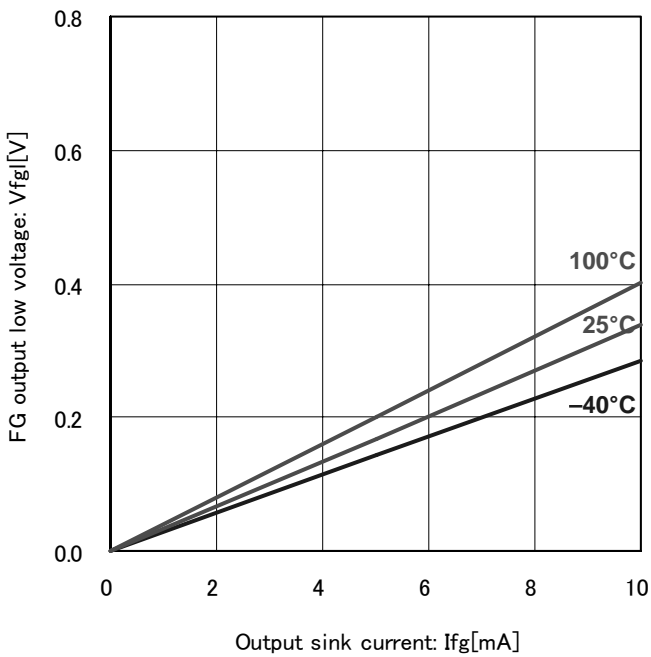


Fig.13 FG output low voltage (Vcc=12V)

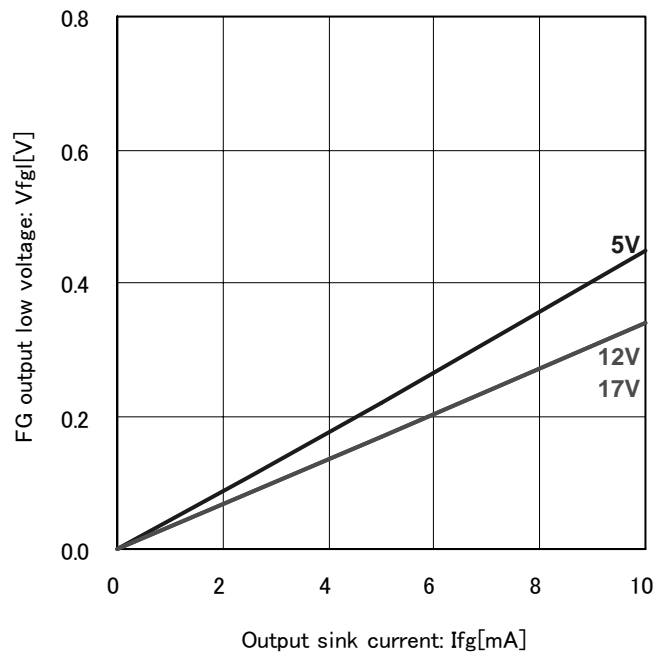


Fig.14 FG output low voltage (Ta=25°C)

● Typical performance curves(Reference data)

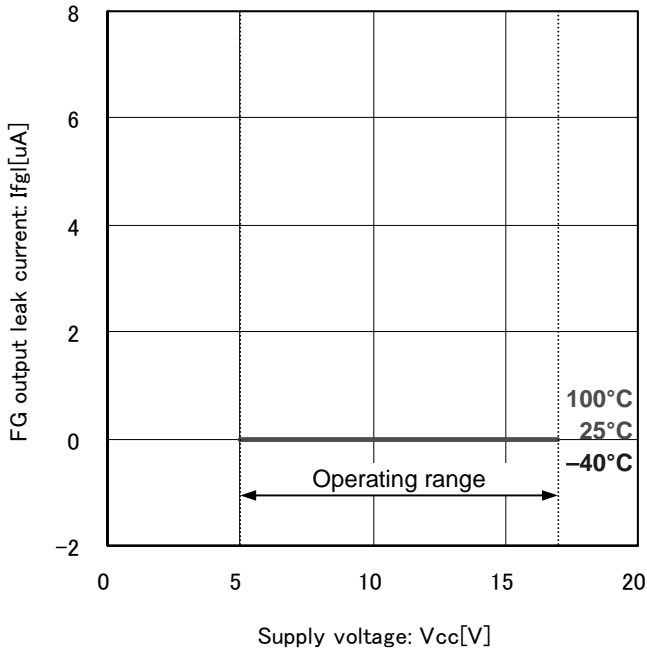


Fig.15 FG output leak current

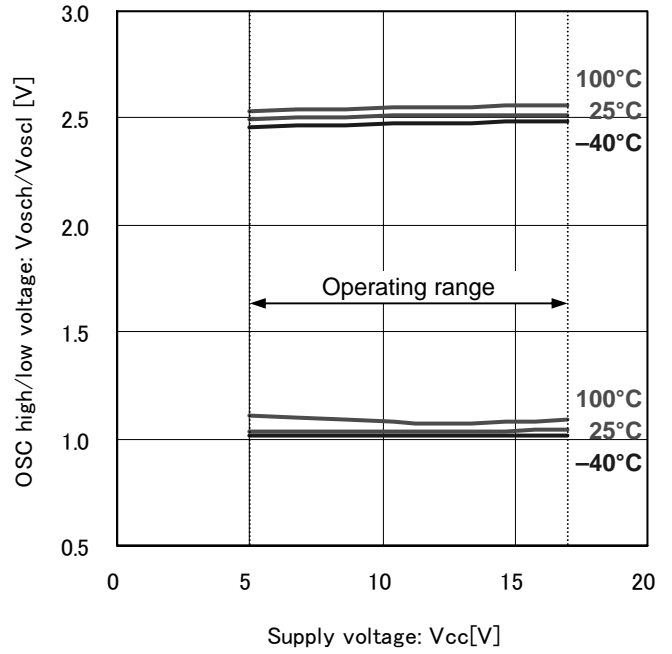


Fig.16 OSC high/low voltage

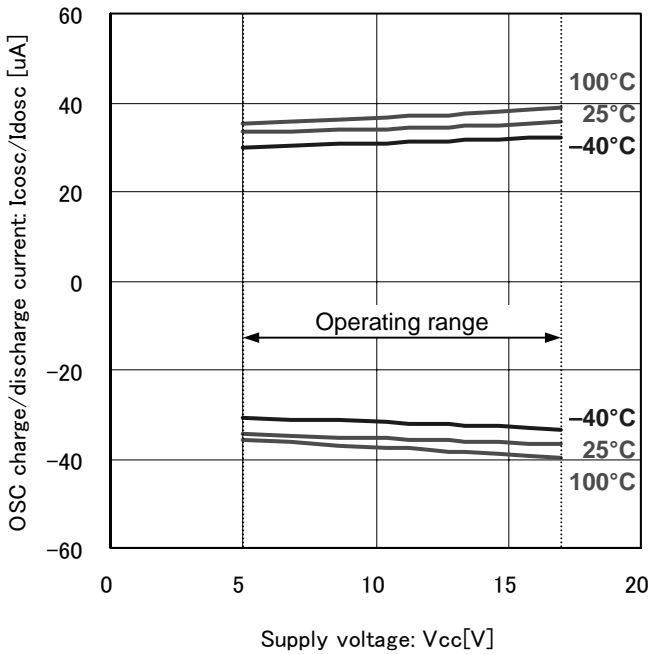


Fig.17 OSC charge/discharge current

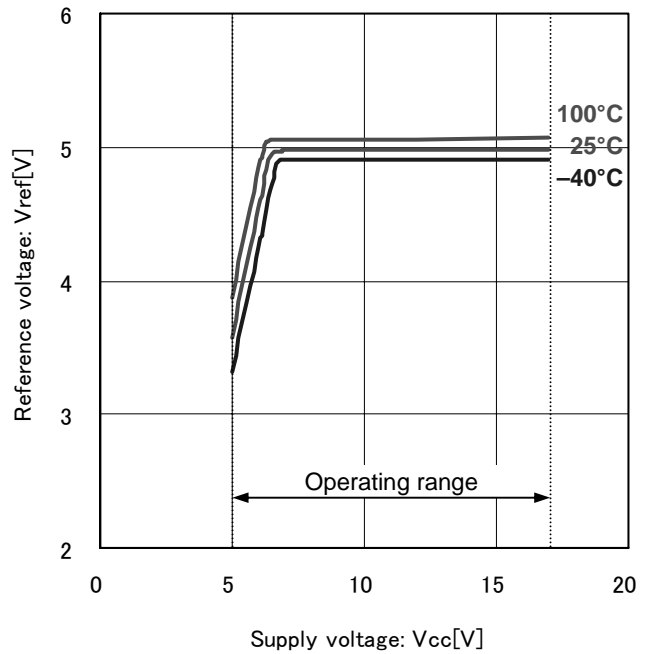


Fig.18 Reference voltage

● Typical performance curves(Reference data)

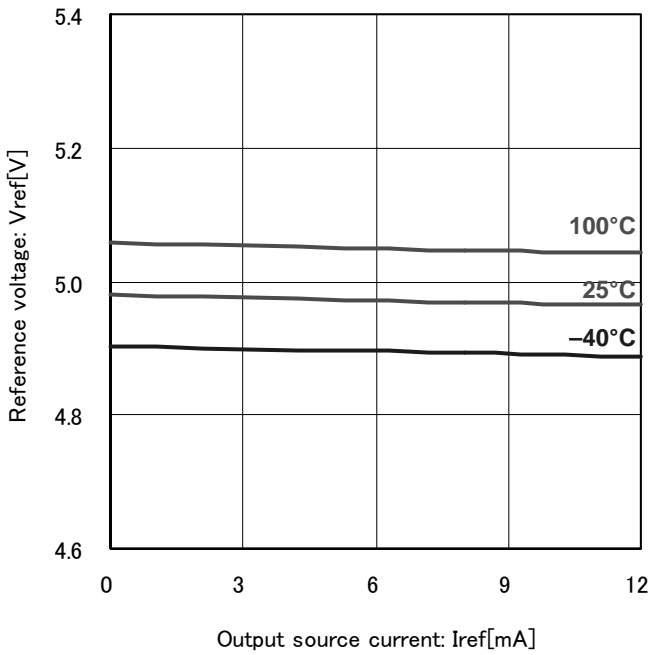


Fig.19 Reference voltage current ability ($V_{cc}=12V$)

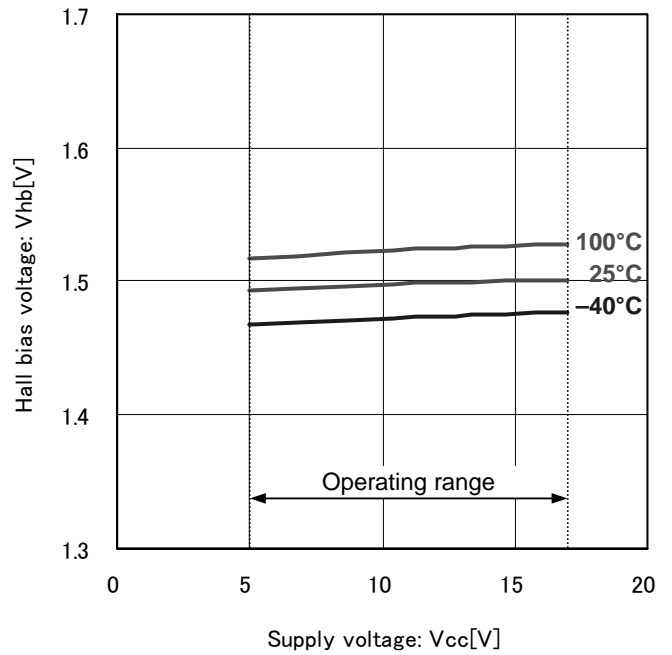


Fig.20 Hall bias voltage

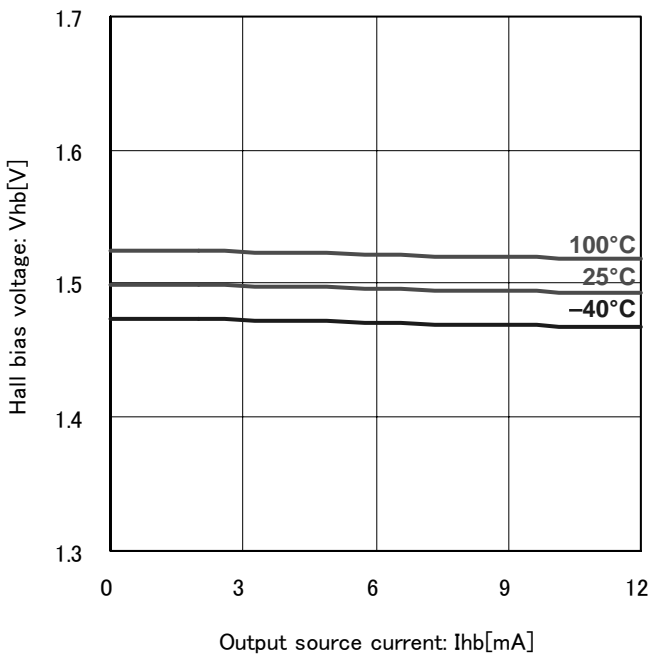


Fig.21 Hall bias voltage current ability ($V_{cc}=12V$)

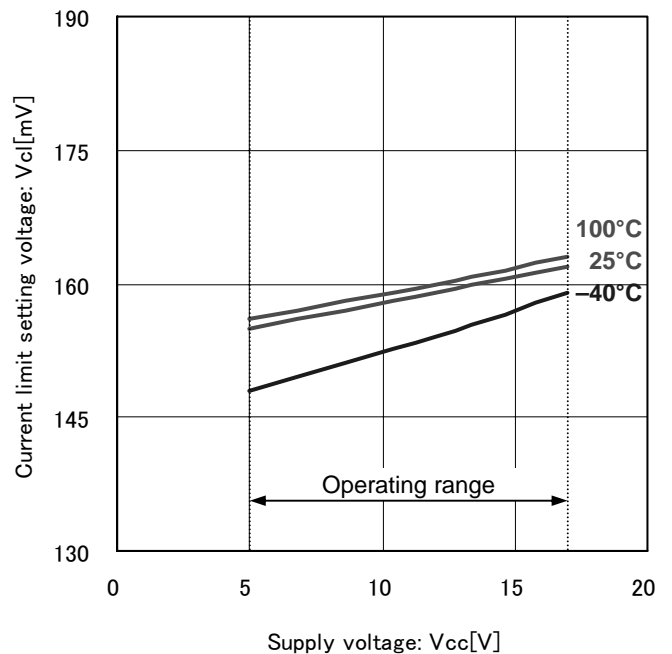


Fig.22 Current limit setting voltage

● Typical performance curves(Reference data)

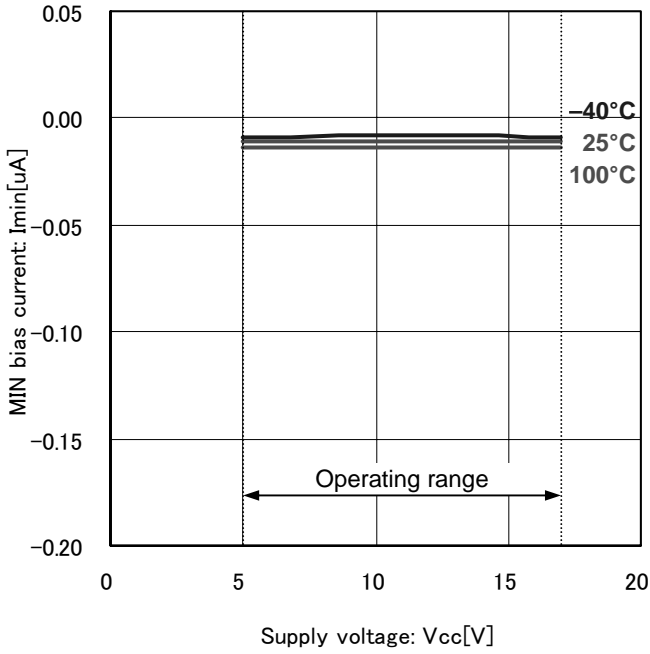


Fig.23 MIN bias current

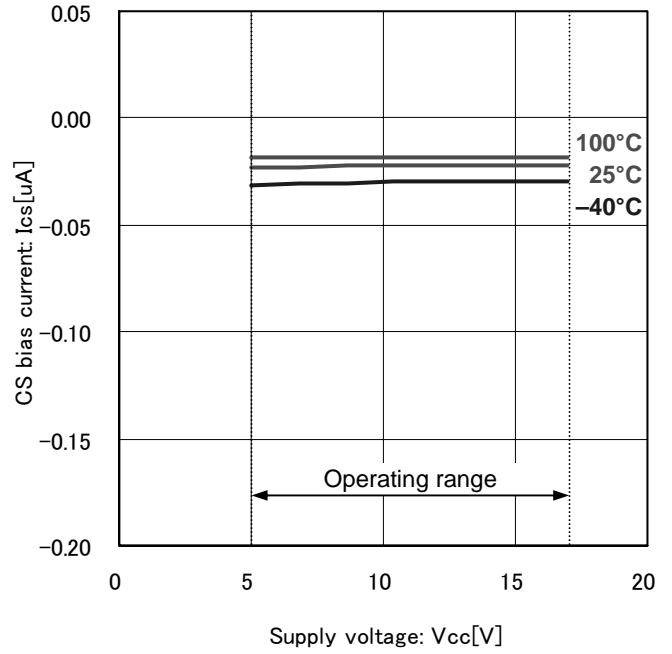


Fig.24 CS bias current

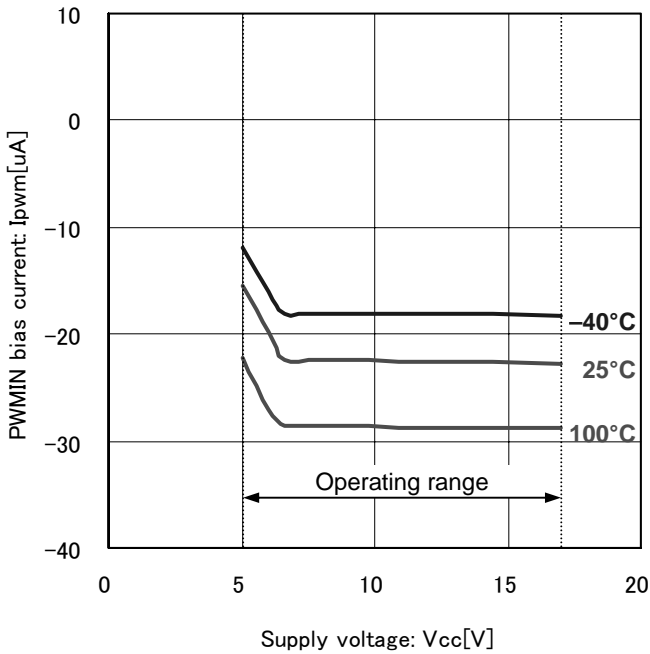


Fig.25 PWMIN bias current

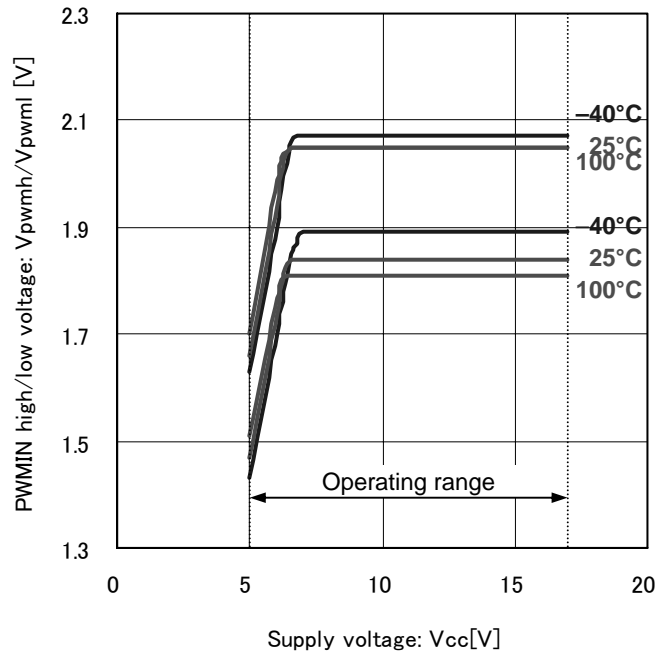


Fig.26 PWMIN input high/low voltage

● Typical performance curves(Reference data)

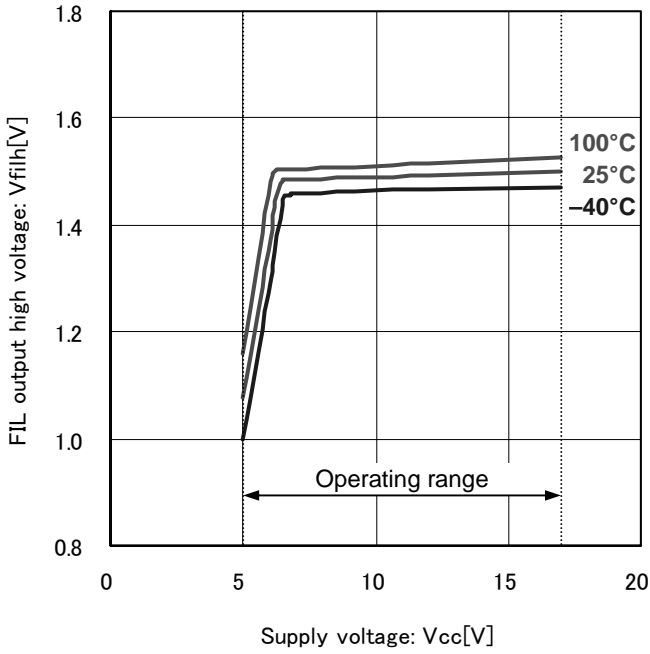


Fig.27 FIL output high voltage

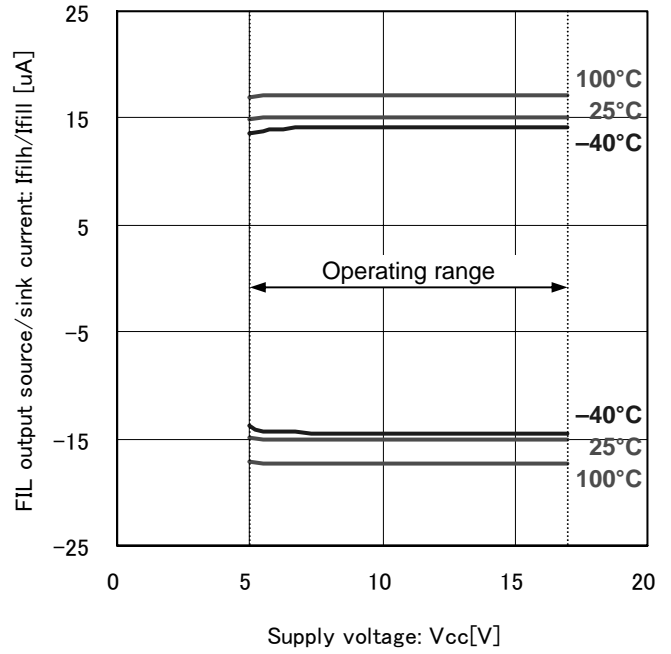


Fig.28 FIL output source/sink current

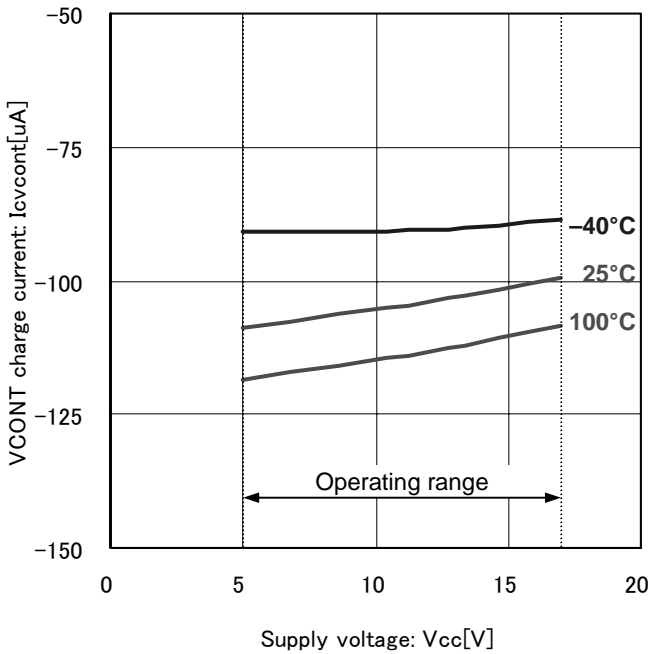


Fig.29 VCONT charge current

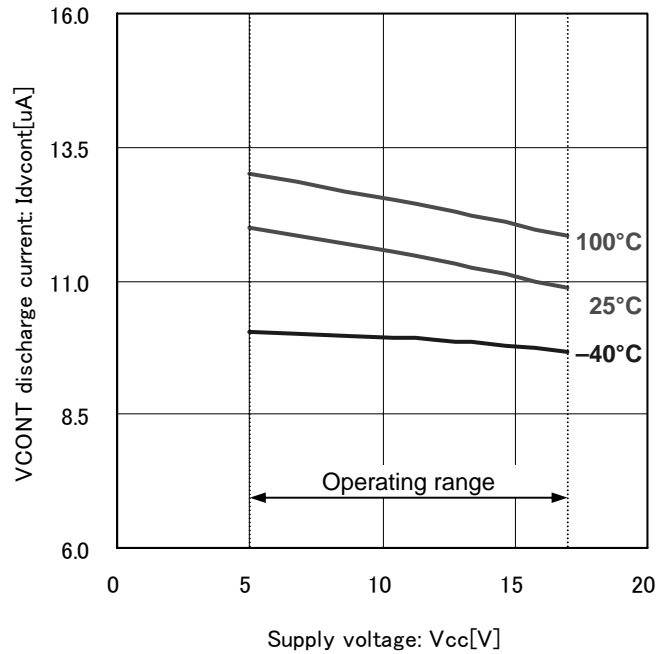


Fig.30 VCONT discharge current

● Typical performance curves(Reference data)

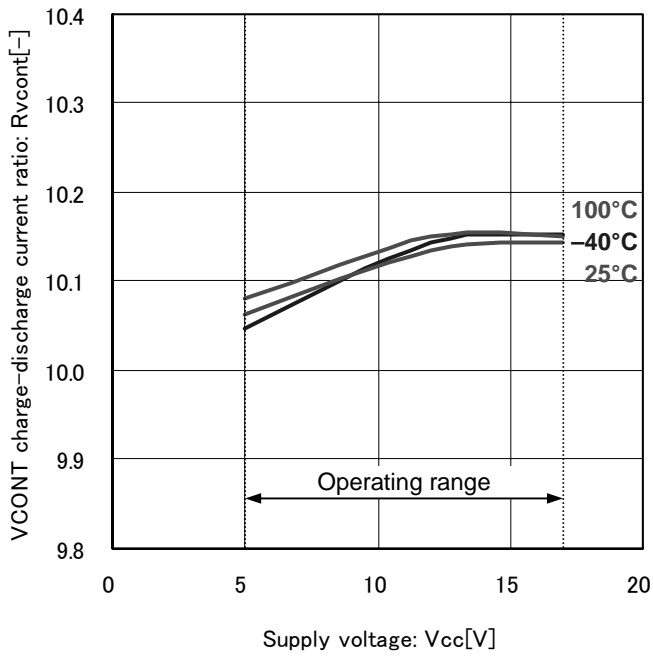


Fig.31 VCONT charge-discharge current ratio

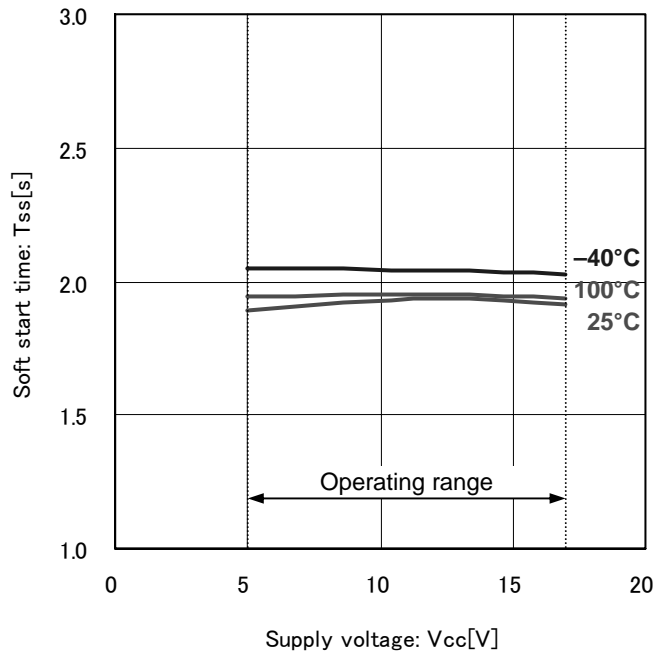


Fig.32 Soft start time

●Application circuit example(Constant values are for reference)

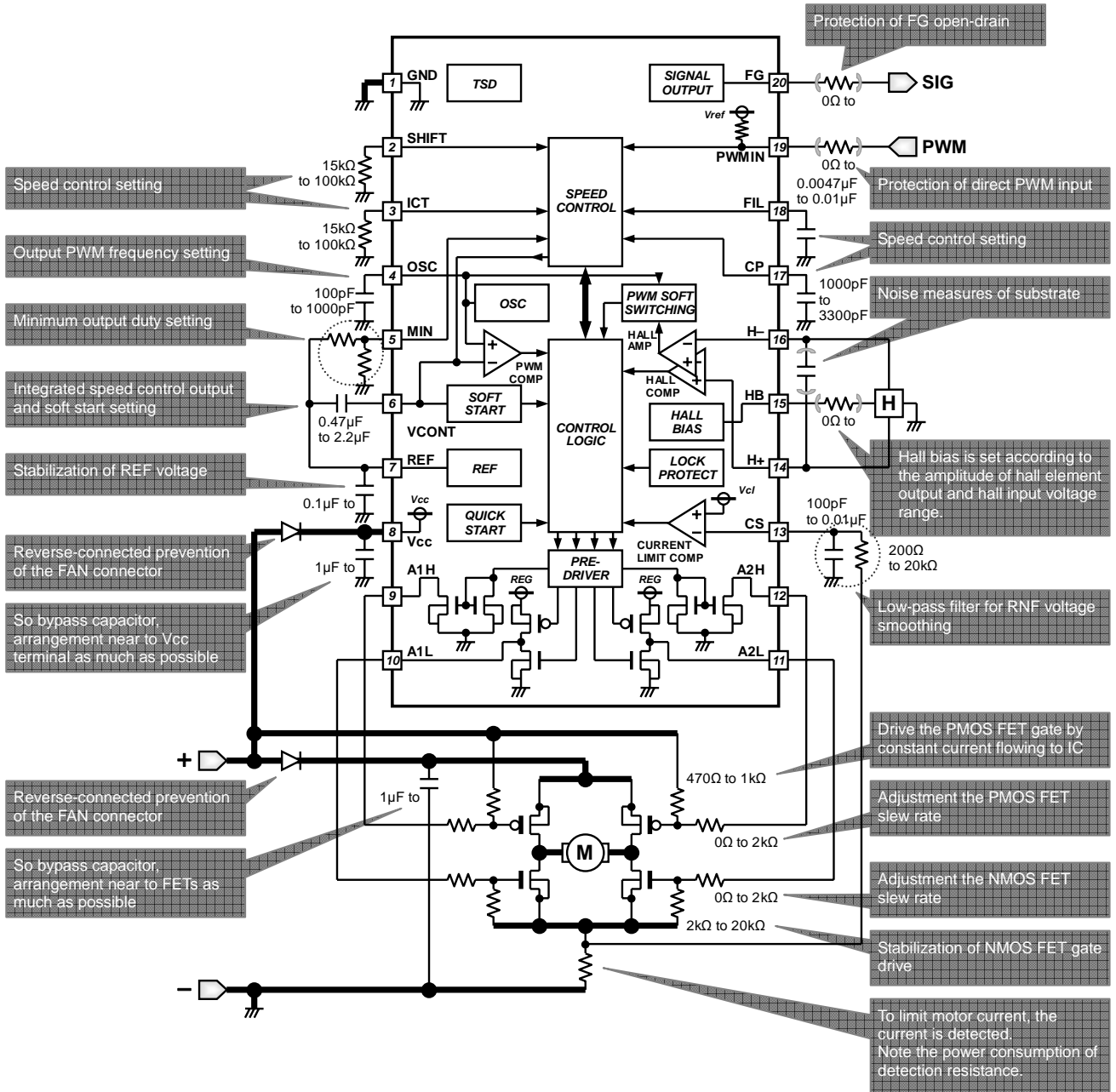


Fig.33 PWM controllable 4 wires type motor application circuit

Substrate design note

- Motor power and ground lines are made as fat as possible.
- IC power line is made as fat as possible.
- IC ground line is common with the application ground except motor ground (i.e. hall ground etc.), and arranged near to (-) land.
- The bypass capacitors (Vcc side and Vm side) are arrangement near to Vcc terminal and FETs, respectively.
- H+ and H- lines are arranged side by side and made from the hall element to IC as shorter as possible, because it is easy for the noise to influence the hall lines.

●Power dissipation

Power dissipation (total loss) indicates the power that can be consumed by IC at Ta=25°C (normal temperature). IC is heated when it consumes power, and the temperature of IC chip becomes higher than ambient temperature. The temperature that can be accepted by IC chip depends on circuit configuration, manufacturing process, etc, and consumable power is limited. Power dissipation is determined by the temperature allowed in IC chip (maximum junction temperature) and thermal resistance of package (heat dissipation capability). The maximum junction temperature is in general equal to the maximum value in the storage temperature range.

Heat generated by consumed power of IC is radiated from the mold resin or lead frame of package. The parameter which indicates this heat dissipation capability (hardness of heat release) is called heat resistance, represented by the symbol θ_{ja} [°C/W]. This heat resistance can estimate the temperature of IC inside the package. Fig.34 shows the model of heat resistance of the package. Heat resistance θ_{ja} , ambient temperature Ta, junction temperature Tj, and power consumption P can be calculated by the equation below:

$$\theta_{ja} = (T_j - T_a) / P \text{ [°C/W]}$$

Thermal de-rating curve indicates power that can be consumed by IC with reference to ambient temperature. Power that can be consumed by IC begins to attenuate at certain ambient temperature. This gradient is determined by thermal resistance θ_{ja} . Thermal resistance θ_{ja} depends on chip size, power consumption, package ambient temperature, packaging condition, wind velocity, etc., even when the same package is used. Thermal de-rating curve indicates a reference value measured at a specified condition. Fig.35 shows a thermal de-rating curve (Value when mounting FR4 glass epoxy board 70[mm] x 70[mm] x 1.6[mm] (copper foil area below 3[%])). Thermal resistance θ_{jc} from IC chip joint part to the package surface part of mounting the above-mentioned same substrate is shown in the following as a reference value.

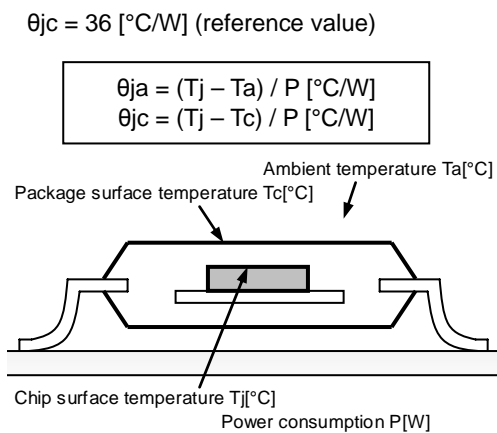


Fig.34 Thermal resistance

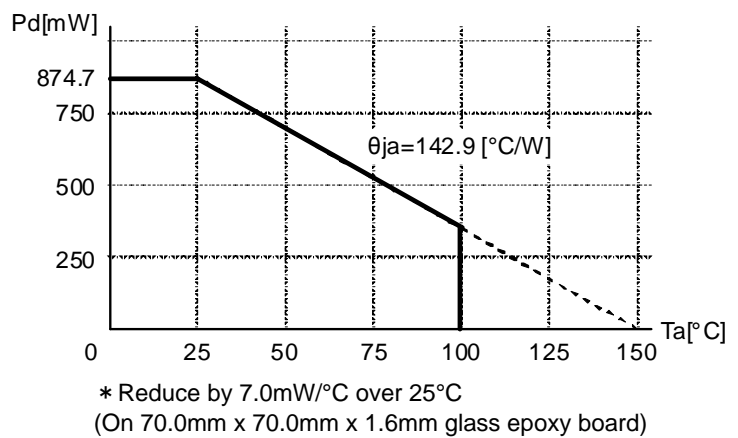
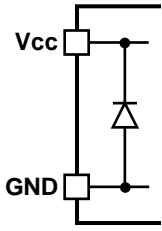


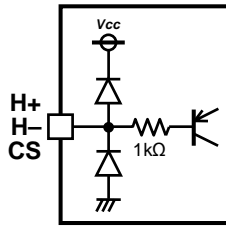
Fig.35 Thermal de-rating curve

● I/O equivalence circuit (Resistance values are typical)

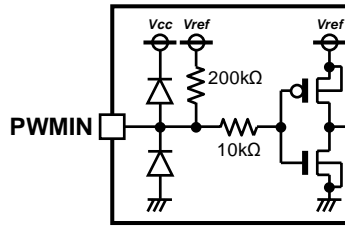
1) Power supply terminal, and Ground terminal



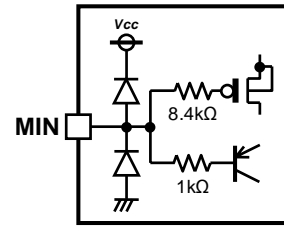
2) Hall input terminals, and Output current detection terminal



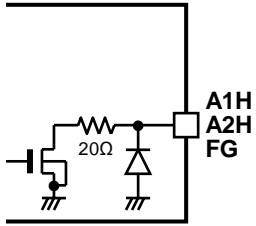
3) PWM pulse input terminal



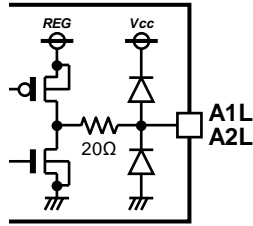
4) Minimum output duty setting terminal



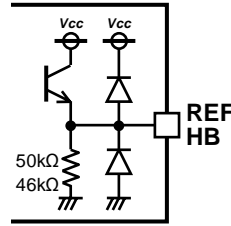
5) High side output 1, 2 terminals, and Speed pulse signal output terminal



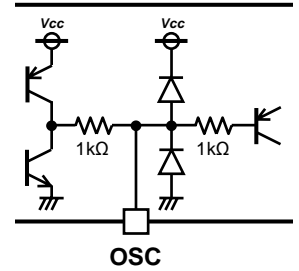
6) Low side output 1, 2 terminals



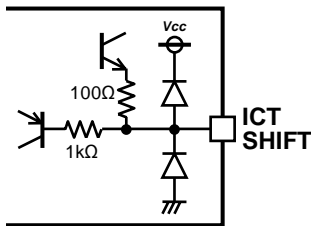
7) Reference voltage output terminal, and Hall bias terminal



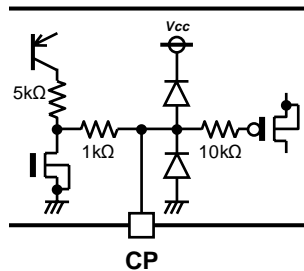
8) Oscillating capacitor connecting terminal



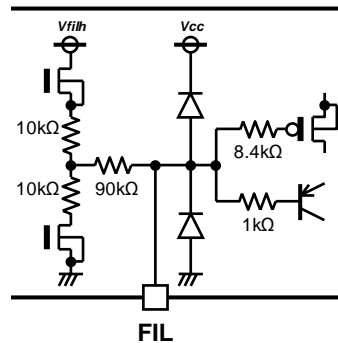
9) Current setting resistor connecting terminal, and Offset current setting resistor setting terminal



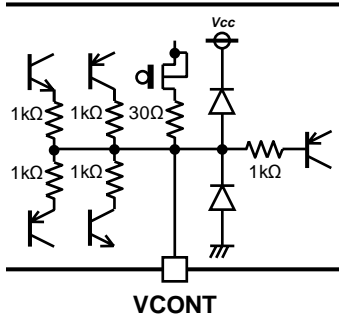
10) Pulse width setting capacitor setting terminal



11) Pulse smoothing capacitor setting terminal



12) Integrating output terminal



●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) Connecting the power supply connector backward
Connecting of the power supply in reverse polarity can damage IC. Take precautions when connecting the power supply lines. An external direction diode can be added.
- 3) Power supply line
Back electromotive force causes regenerated current to power supply line, therefore take a measure such as placing a capacitor between power supply and GND for routing regenerated current. And fully ensure that the capacitor characteristics have no problem before determine a capacitor value. (When applying electrolytic capacitors, capacitance characteristic values are reduced at low temperatures)
- 4) GND potential
It is possible that the motor output terminal may deflect below GND terminal because of influence by back electromotive force of motor. The potential of GND terminal must be minimum potential in all operating conditions, except that the levels of the motor outputs terminals are under GND level by the back electromotive force of the motor coil. Also ensure that all terminals except GND and motor output terminals do not fall below GND voltage including transient characteristics. Malfunction may possibly occur depending on use condition, environment, and property of individual motor. Please make fully confirmation that no problem is found on operation of IC.
- 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 shut down circuit
The IC incorporates a built-in thermal shutdown circuit (TSD circuit). Operation temperature is 175°C (typ.) and has a hysteresis width of 25°C (typ.). When IC chip temperature rises and TSD circuit works, the output terminal becomes an open state. 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 operation this circuit or use the IC in an environment where the operation of this circuit is assumed.
- 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) GND 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.
- 12) Capacitor between output and GND
When a large capacitor is connected between output and GND, if Vcc is shorted with 0V or GND for some cause, it is possible that the current charged in the capacitor may flow into the output resulting in destruction. Keep the capacitor between output and GND below 100μF.
- 13) IC terminal input
When Vcc voltage is not applied to IC, do not apply voltage to each input terminal. When voltage above Vcc or below GND is applied to the input terminal, parasitic element is actuated due to the structure of IC. Operation of parasitic element causes mutual interference between circuits, resulting in malfunction as well as destruction in the last. Do not use in a manner where parasitic element is actuated.
- 14) In use
We are sure that the example of application circuit is preferable, but please check the character further more in application to a part that requires high precision. In using the unit with external circuit constant changed, consider the variation of externally equipped parts and our IC including not only static character but also transient character and allow sufficient margin in determining.

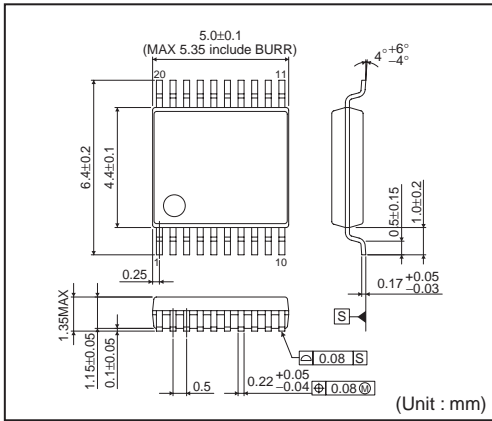
●Status of this document

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.

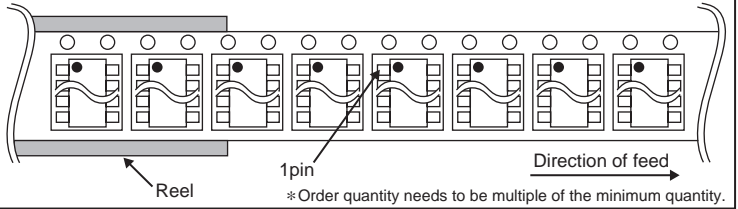
●Physical dimension tape and reel information

SSOP-C20



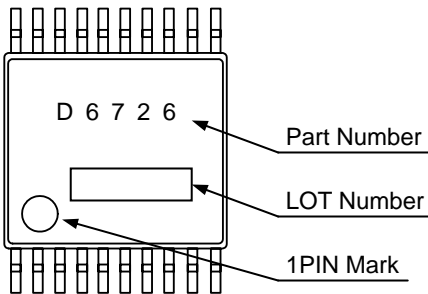
<Tape and Reel information>

Tape	Embossed carrier tape
Quantity	2500pcs
Direction of feed	E2 (The direction is the 1pin of product is at the upper left when you hold reel on the left hand and you pull out the tape on the right hand)



●Marking diagram

SSOP-C20
(TOP VIEW)



●Revision history

Date	Revision	Comments
07.JUL.2012	001	New Release
28.JUL.2012	002	Color appearance change (There is no change in the content.)

Notice

Precaution on using ROHM Products

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

- 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:
 - Installation of protection circuits or other protective devices to improve system safety
 - Installation of redundant circuits to reduce the impact of single or multiple circuit failure
- 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:
 - Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
 - Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
 - 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.

Precaution for Mounting / Circuit board design

- 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.

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

1. All information and data including but not limited to application example contained in this document is for reference only. ROHM does not warrant that foregoing information or data will not infringe any intellectual property rights or any other rights of any third party regarding such information or data. ROHM shall not be in any way responsible or liable for infringement of any intellectual property rights or other damages arising from use of such information or data.:
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General Precaution

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