

P_D	200	mW
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● Feature

High reliability
Small mold type

● Application

Voltage regulation

● Structure

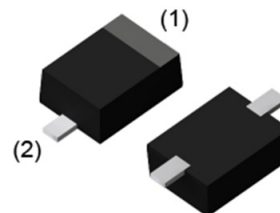
Silicon Epitaxial Planar

● Absolute Maximum Rating ($T_a = 25^\circ\text{C}$)

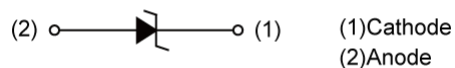
Parameter	Symbol	Limits	Unit
Power dissipation	P_D	200	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 ~ 150	$^\circ\text{C}$

● Outline

Package Code	SOD-323FL
JEITA Code	SC-90A
ROHM Code	UMD2



● Inner Circuit



● Packaging Specification

Packing	Embossed Tape
Reel Size(mm)	180
Taping Width(mm)	8
Basic Ordering Unit(pcs)	3000
Taping Code	TE-17
Marking	55

● Characteristic ($T_a = 25^\circ\text{C}$)

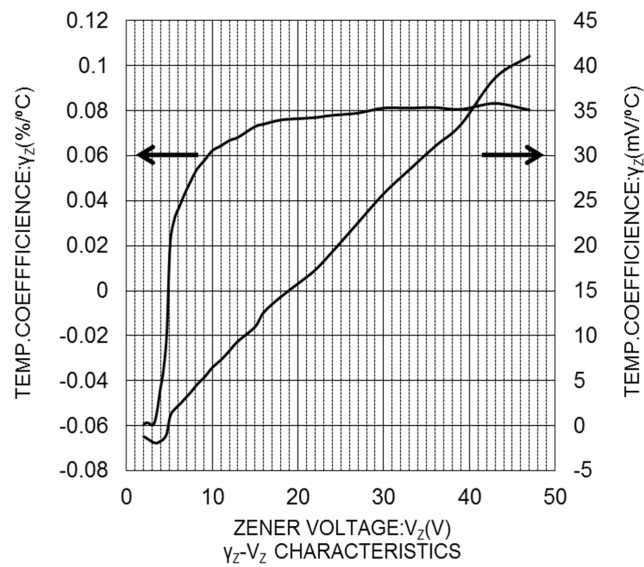
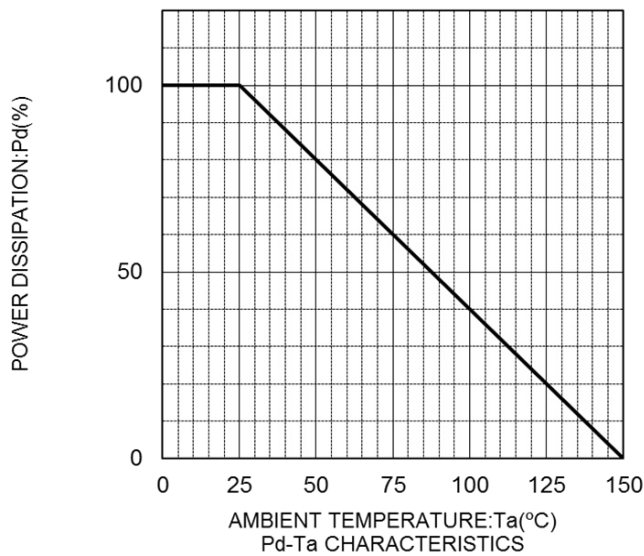
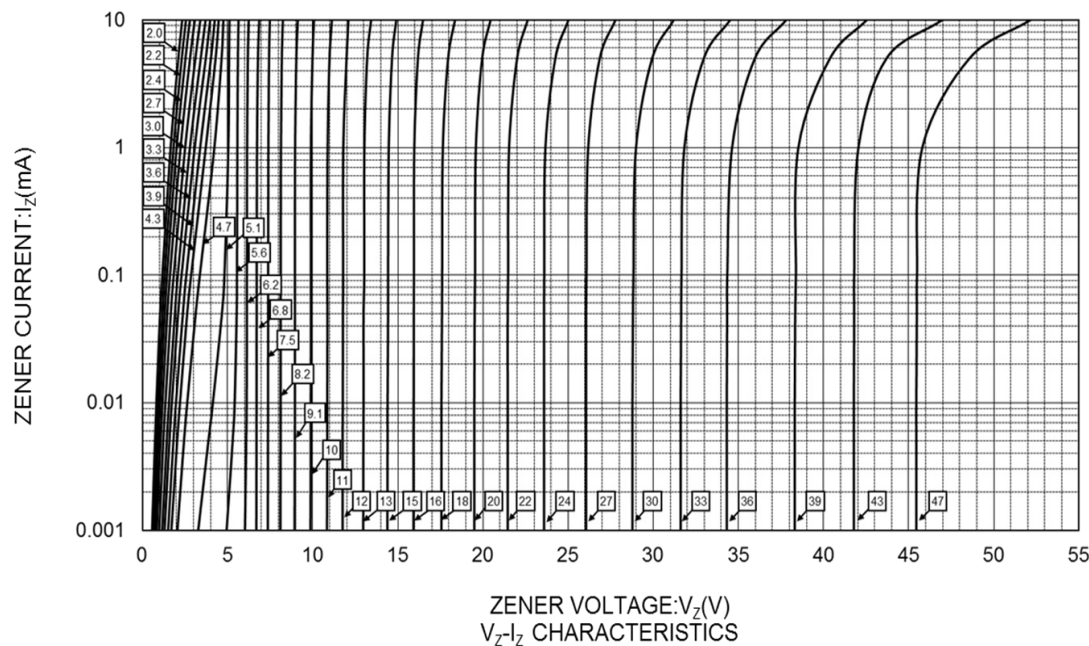
P/N	Symbol								
	Zener Voltage: $V_Z(\text{V})$			Dynamic Impedance: $Z_Z(\Omega)$		Zener Impedance: $Z_{ZK}(\Omega)$		Reverse Current: $I_R(\mu\text{A})$	
	MIN.	MAX.	$I_Z(\text{mA})$	MAX.	$I_Z(\text{mA})$	MAX.	$I_Z(\text{mA})$	MAX.	$V_R(\text{V})$
UDZVFH 2.0B	2.020	2.200	5	100	5	1000	0.5	120	0.5
UDZVFH 2.2B	2.220	2.410	5	100	5	1000	0.5	120	0.7
UDZVFH 2.4B	2.430	2.630	5	100	5	1000	0.5	120	1.0
UDZVFH 2.7B	2.690	2.910	5	110	5	1000	0.5	100	1.0
UDZVFH 3.0B	3.010	3.220	5	120	5	1000	0.5	50	1.0
UDZVFH 3.3B	3.320	3.530	5	120	5	1000	0.5	20	1.0
UDZVFH 3.6B	3.600	3.845	5	100	5	1000	1.0	10	1.0
UDZVFH 3.9B	3.890	4.160	5	100	5	1000	1.0	5	1.0
UDZVFH 4.3B	4.170	4.430	5	100	5	1000	1.0	5	1.0
UDZVFH 4.7B	4.550	4.750	5	100	5	800	0.5	2	1.0
UDZVFH 5.1B	4.980	5.200	5	80	5	500	0.5	2	1.5
UDZVFH 5.6B	5.490	5.730	5	60	5	200	0.5	1	2.5
UDZVFH 6.2B	6.060	6.330	5	60	5	100	0.5	1	3.0
UDZVFH 6.8B	6.650	6.930	5	40	5	60	0.5	0.5	3.5
UDZVFH 7.5B	7.280	7.600	5	30	5	60	0.5	0.5	4.0
UDZVFH 8.2B	8.020	8.360	5	30	5	60	0.5	0.5	5.0
UDZVFH 9.1B	8.850	9.230	5	30	5	60	0.5	0.5	6.0
UDZVFH 10B	9.770	10.210	5	30	5	60	0.5	0.1	7.0
UDZVFH 11B	10.760	11.220	5	30	5	60	0.5	0.1	8.0
UDZVFH 12B	11.740	12.240	5	30	5	80	0.5	0.1	9.0
UDZVFH 13B	12.910	13.490	5	37	5	80	0.5	0.1	10.0
UDZVFH 15B	14.340	14.980	5	42	5	80	0.5	0.1	11.0
UDZVFH 16B	15.850	16.510	5	50	5	80	0.5	0.1	12.0
UDZVFH 18B	17.560	18.350	5	65	5	80	0.5	0.1	13.0
UDZVFH 20B	19.520	20.390	5	85	5	100	0.5	0.1	15.0
UDZVFH 22B	21.540	22.470	5	100	5	100	0.5	0.1	17.0
UDZVFH 24B	23.720	24.780	5	120	5	120	0.5	0.1	19.0
UDZVFH 27B	26.190	27.530	5	150	5	150	0.5	0.1	21.0
UDZVFH 30B	29.190	30.690	5	200	5	200	0.5	0.1	23.0
UDZVFH 33B	32.150	33.790	5	250	5	250	0.5	0.1	25.0
UDZVFH 36B	35.070	36.870	5	300	5	300	0.5	0.1	27.0
UDZVFH 39B	38.020	39.980	2	300	2	-	-	0.1	30.0
UDZVFH 43	40.000	45.000	2	550	2	-	-	0.1	33.0
UDZVFH 47	44.000	49.000	2	600	2	-	-	0.1	36.0

 V_Z test time is 40ms.

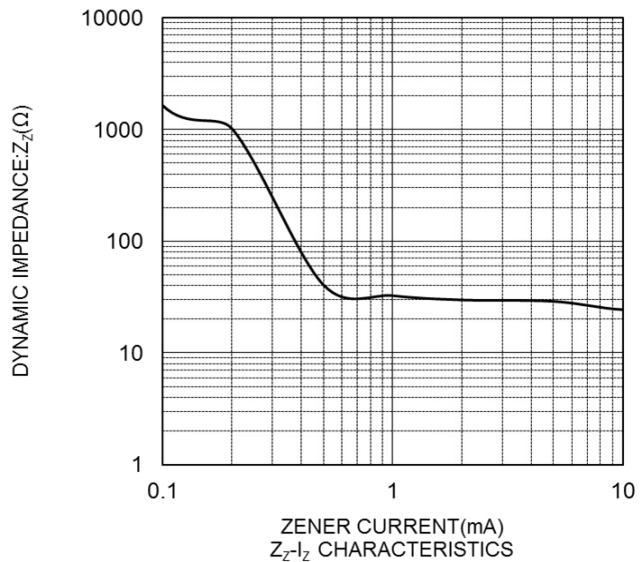
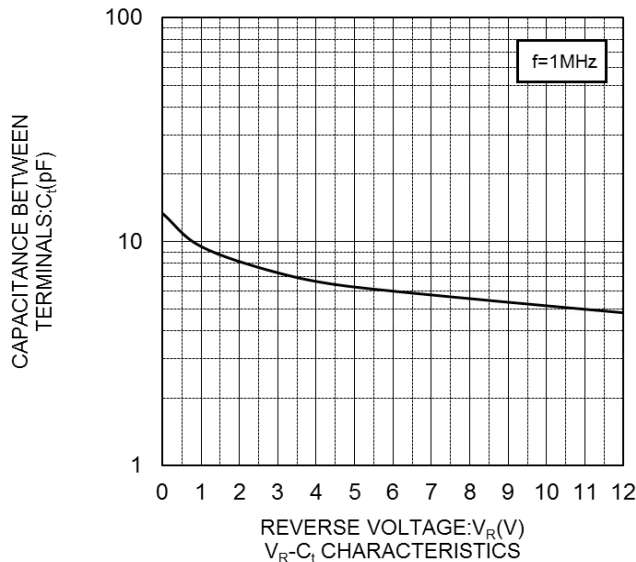
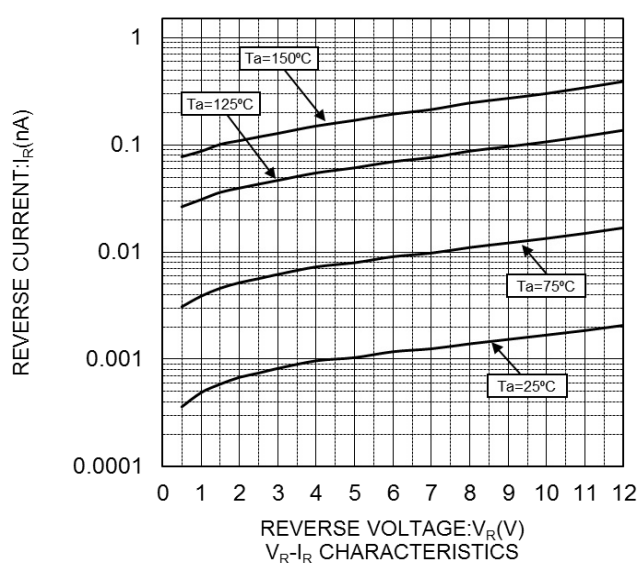
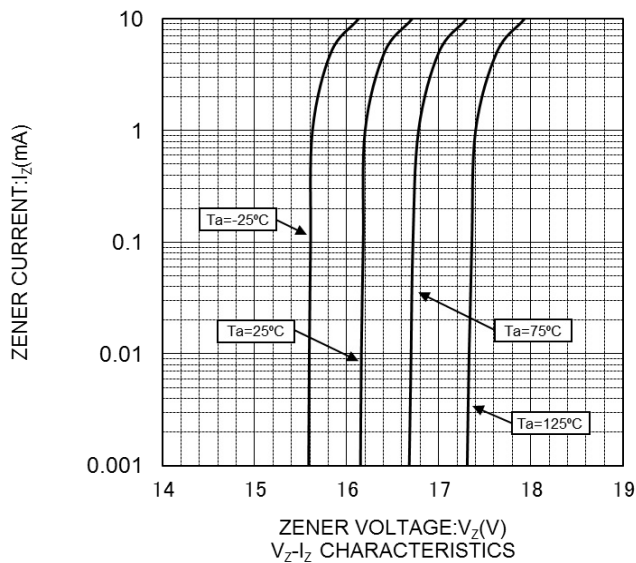
● Marking

P/N	Marking	P/N	Marking
UDZVFH 2.0B	02	UDZVFH 10B	05
UDZVFH 2.2B	12	UDZVFH 11B	15
UDZVFH 2.4B	22	UDZVFH 12B	25
UDZVFH 2.7B	32	UDZVFH 13B	35
UDZVFH 3.0B	42	UDZVFH 15B	45
UDZVFH 3.3B	52	UDZVFH 16B	55
UDZVFH 3.6B	62	UDZVFH 18B	65
UDZVFH 3.9B	72	UDZVFH 20B	75
UDZVFH 4.3B	82	UDZVFH 22B	85
UDZVFH 4.7B	92	UDZVFH 24B	95
UDZVFH 5.1B	A2	UDZVFH 27B	A5
UDZVFH 5.6B	C2	UDZVFH 30B	C5
UDZVFH 6.2B	E2	UDZVFH 33B	E5
UDZVFH 6.8B	F2	UDZVFH 36B	F5
UDZVFH 7.5B	H2	UDZVFH 39B	H5
UDZVFH 8.2B	J2	UDZVFH 43	L8
UDZVFH 9.1B	L2	UDZVFH 47	M8

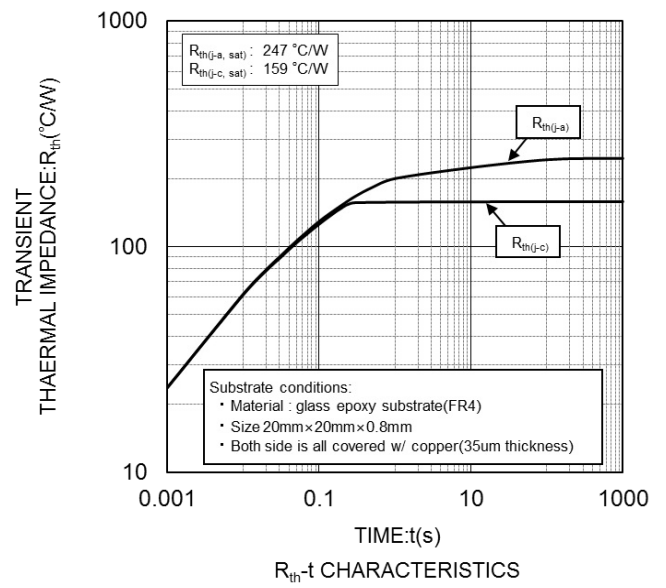
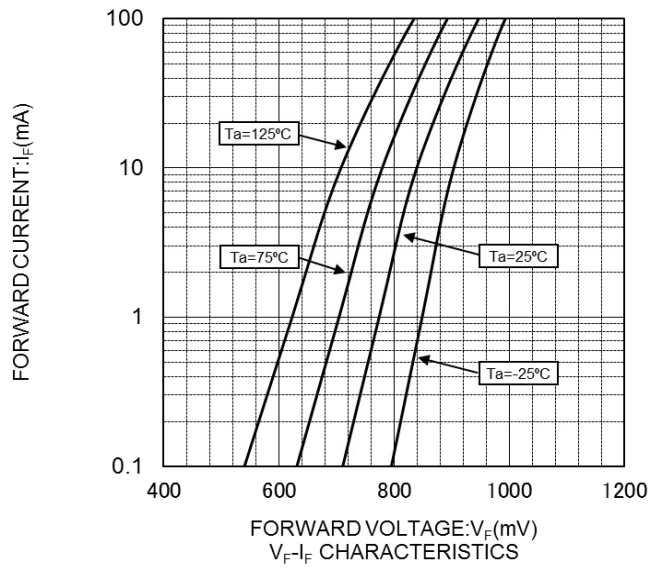
● Characteristic Curves



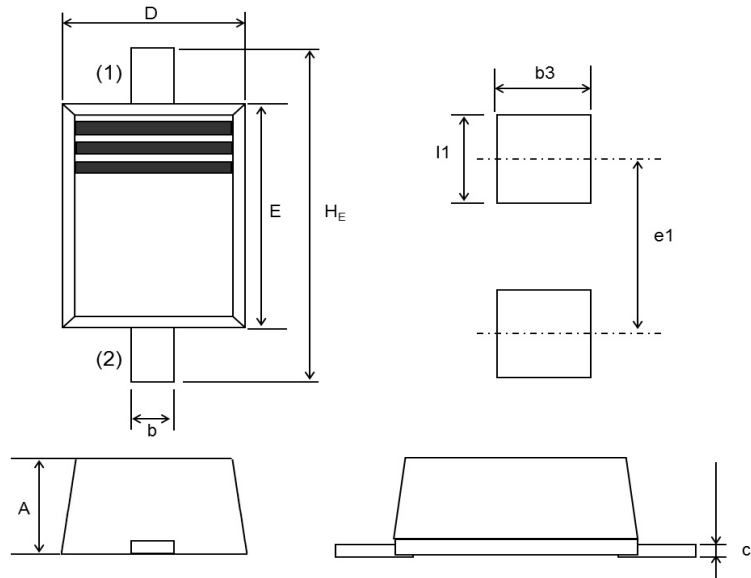
● Characteristic Curves



● Characteristic Curves



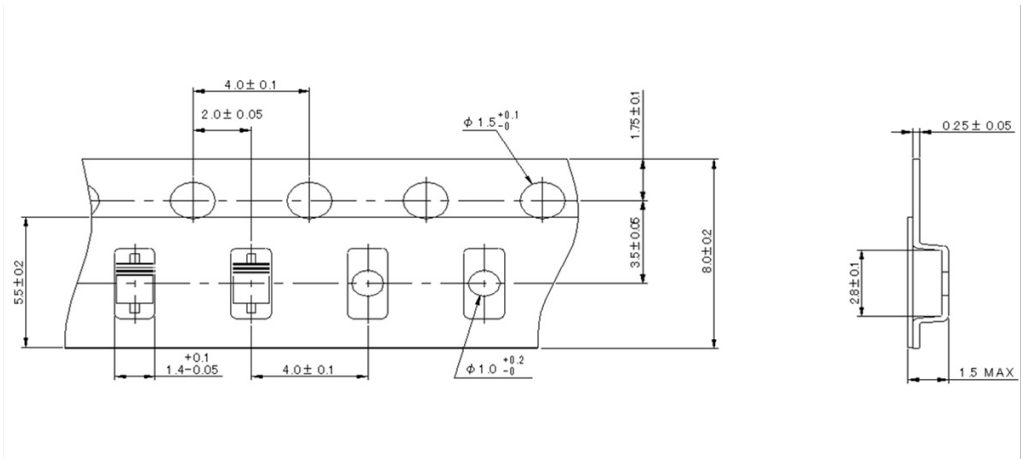
● Dimension (UMD2 SOD-323F SC-90A)



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A	0.60	0.70	0.90	0.024	0.028	0.035
b	0.25	0.30	0.35	0.010	0.012	0.014
c	0.05	0.10	0.20	0.002	0.004	0.008
D	1.15	1.25	1.35	0.045	0.049	0.053
E	1.60	1.70	1.80	0.063	0.067	0.071
H _E	2.30	2.50	2.70	0.091	0.098	0.106
l ₁	0.80	-	-	0.031	-	-
b ₃	0.90	-	-	0.035	-	-
e ₁	-	2.10	-	-	0.083	-

(1) The marking bar indicates the cathode.
(2) The direction indicates the anode.

● Taping (Unit:mm)



Notice

Precaution on using ROHM Products

1. If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment ^(Note 1), aircraft/spacecraft, nuclear power controllers, 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	

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 not designed 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 depending on ambient temperature. When used in sealed area, confirm that it is the use in the range that does not exceed the maximum junction temperature.
8. Confirm that operation temperature is within the specified range described in the product specification.
9. ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

Precaution for Mounting / Circuit board design

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

For details, please refer to ROHM Mounting specification

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

A two-dimensional barcode 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.

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Since concerned goods might be fallen under listed items of export control prescribed by Foreign exchange and Foreign trade act, please consult with ROHM in case of export.

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