



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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V_{RWM}	26	V
P_{PP}	600	W
I_{PP}	14.3	A

● Feature

- High reliability
- Small power mold type

● Application

- Surge Protection

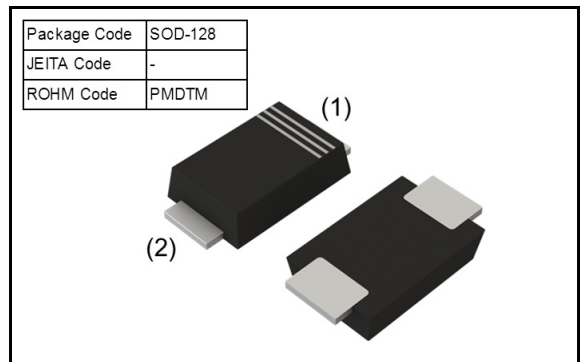
● Structure

- Silicon Epitaxial Planar

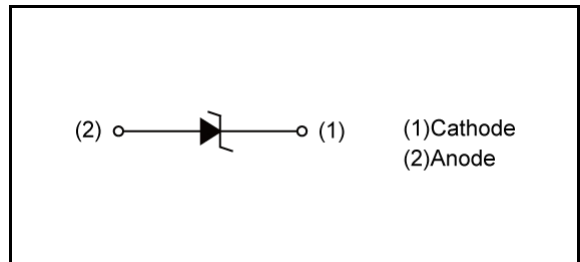
● Absolute Maximum Rating ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min.	Max.	Unit
Peak Pulse Power	P_{PP}	$t_p=10/1000\mu\text{s}$	-	600	W
Peak Pulse Current	I_{PP}	$t_p=10/1000\mu\text{s}$	-	14.3	A
Junction temperature	T_j	-	-	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-55	150	$^\circ\text{C}$

● Outline



● Inner Circuit



● Packaging Specification

Packing	Embossed Tape
Reel Size(mm)	180
Taping Width(mm)	12
Basic Ordering Unit(pcs)	3000
Taping Code	TR
Marking	Y6

● Characteristic (Ta = 25°C)

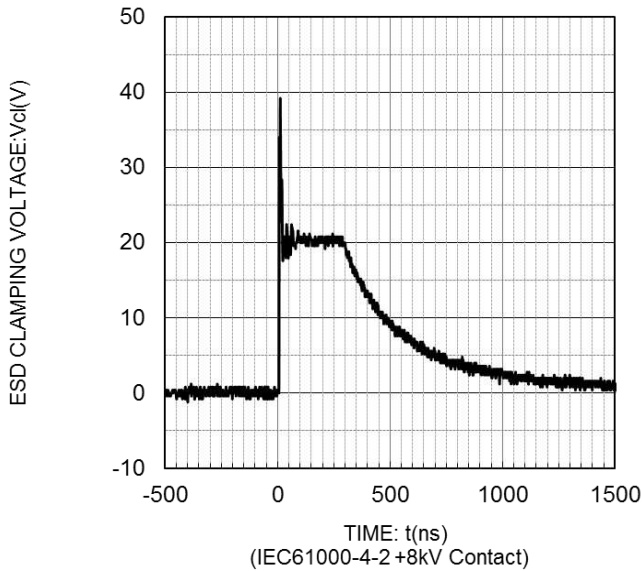
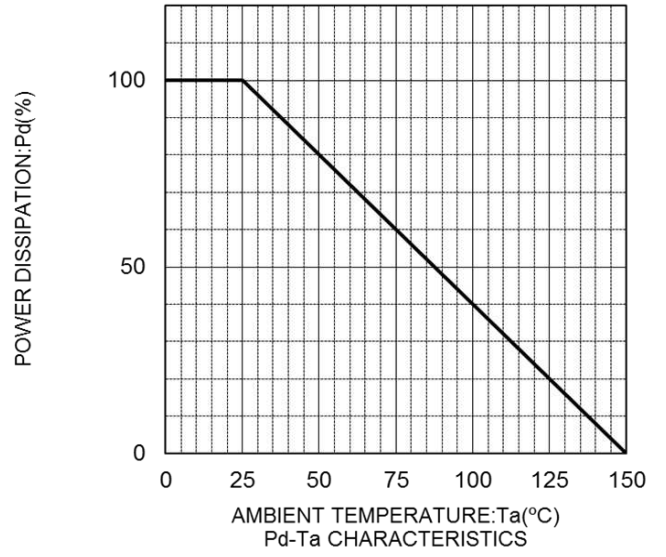
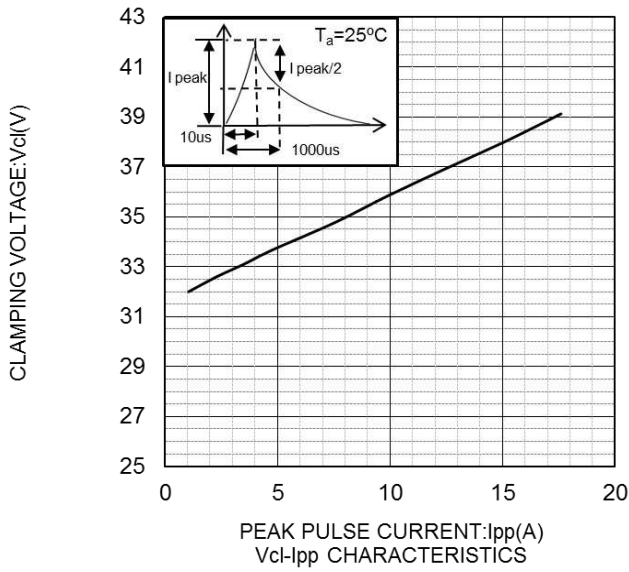
P/N	Symbol							
	Breakdown voltage : V _{BR} (V)			Reverse Current: I _R (μA)		Clamping voltage: V _{CL} (V)		Reverse Stand-off voltage : V _{RVM} (V)
	MIN.	MAX.	I _T (mA)	MAX.	V _R (V)	MAX.	I _{PP} (A)	MAX.
VS5V0UA1LAM	6.45	7.14	10	800	5.0	10.5	57.0	5.0
VS6V0UA1LAM	6.67	7.37	10	800	6.0	10.3	58.3	6.0
VS7V0UA1LAM	7.78	8.60	10	500	7.0	12.0	50.0	7.0
VS8V0UA1LAM	8.89	9.83	1	50.0	8.0	13.6	44.1	8.0
VS9V0UA1LAM	10.0	11.10	1	5.0	9.0	15.4	39.0	9.0
VS10VUA1LAM	11.1	12.30	1	5.0	10	17.0	35.3	10
VS11VUA1LAM	12.2	13.5	1	5.0	11	18.2	33.0	11
VS12VUA1LAM	13.3	14.7	1	2.5	12	19.9	30.2	12
VS13VUA1LAM	14.4	15.9	1	2.5	13	21.5	28.0	13
VS14VUA1LAM	15.6	17.2	1	2.5	14	23.2	25.9	14
VS15VUA1LAM	16.7	18.5	1	2.5	15	24.4	24.6	15
VS16VUA1LAM	17.8	19.7	1	2.5	16	26.0	23.1	16
VS17VUA1LAM	18.9	20.9	1	2.5	17	27.6	21.7	17
VS18VUA1LAM	20.0	22.1	1	2.5	18	29.2	20.5	18
VS20VUA1LAM	22.2	24.5	1	2.5	20	32.4	18.5	20
VS22VUA1LAM	24.4	26.9	1	2.5	22	35.5	16.9	22
VS24VUA1LAM	26.7	29.5	1	2.5	24	38.9	15.4	24
VS26VUA1LAM	28.9	31.9	1	2.5	26	42.1	14.3	26
VS28VUA1LAM	31.1	34.4	1	2.5	28	45.4	13.2	28
VS30VUA1LAM	33.3	36.8	1	2.5	30	48.4	12.4	30

V_{BR} test time is 40ms.

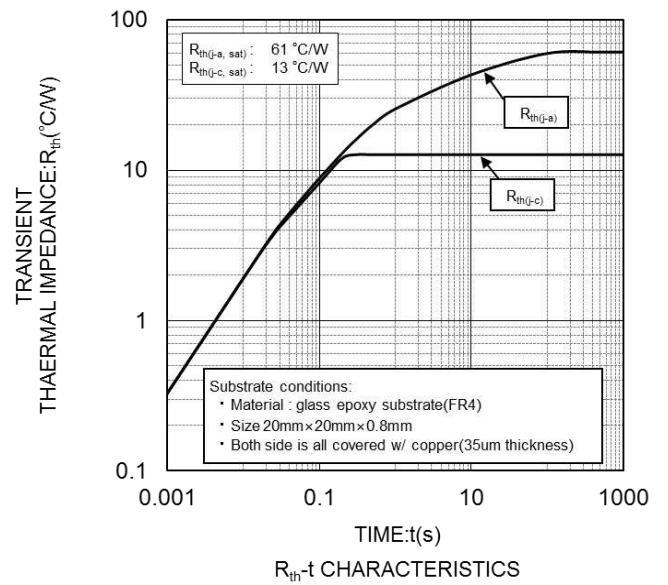
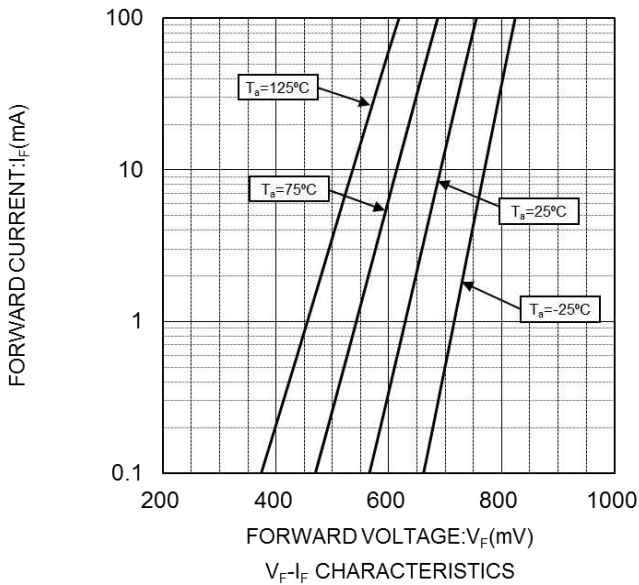
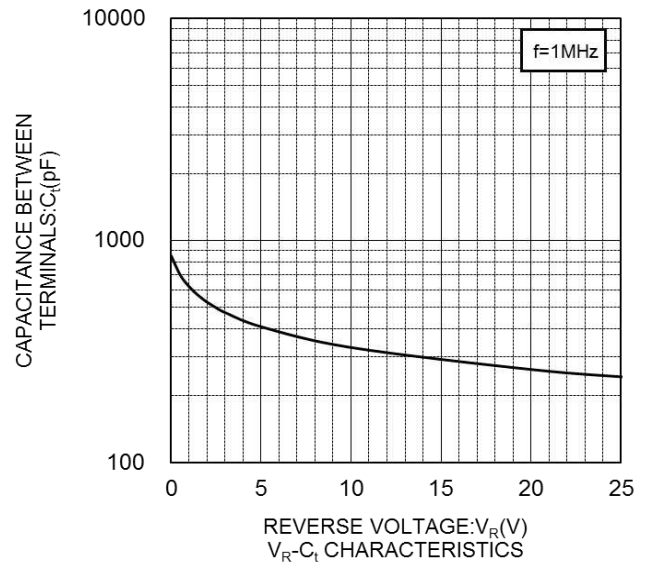
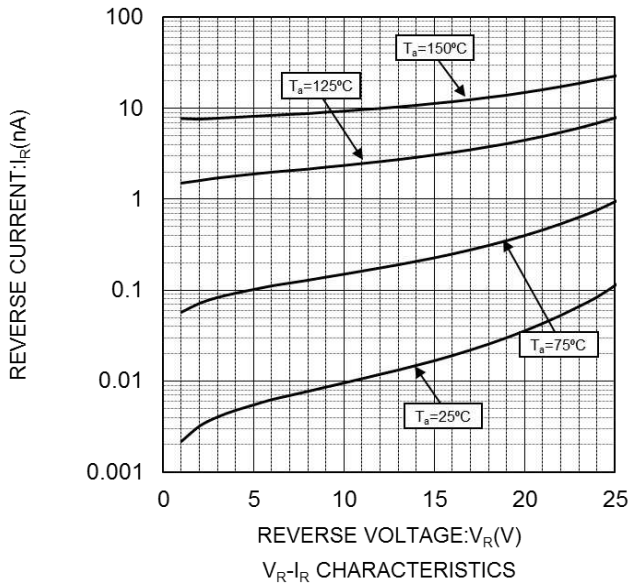
● Marking

形名	Marking	形名	Marking
VS5V0UA1LAM	U2	VS15VUA1LAM	W5
VS6V0UA1LAM	V2	VS16VUA1LAM	X5
VS7V0UA1LAM	X2	VS17VUA1LAM	T6
VS8V0UA1LAM	U4	VS18VUA1LAM	U6
VS9V0UA1LAM	V4	VS20VUA1LAM	V6
VS10VUA1LAM	W4	VS22VUA1LAM	W6
VS11VUA1LAM	X4	VS24VUA1LAM	X6
VS12VUA1LAM	T5	VS26VUA1LAM	Y6
VS13VUA1LAM	U5	VS28VUA1LAM	W9
VS14VUA1LAM	V5	VS30VUA1LAM	X9

● Characteristic Curves



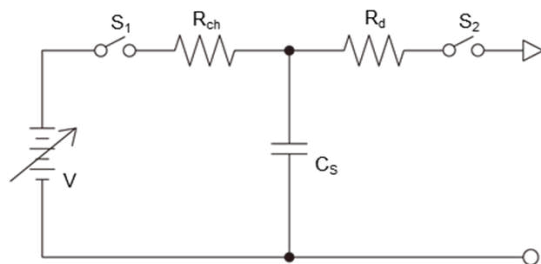
● Characteristic Curves



● Appended figure

Procedure to obtain ESD Clamping Voltage
IEC61000-4-2 Spec

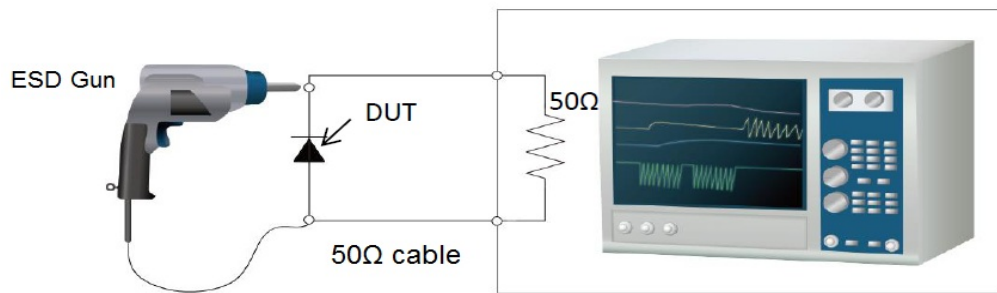
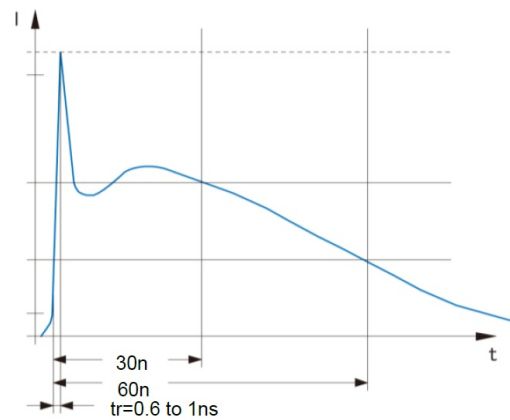
Level	Test Voltage (kV)	First Peak Current (A)	Current at 30ns (A)	Current at 60ns (A)
1	2	7.5	4	2
2	4	15	8	4
3	6	22.5	12	6
4	8	30	16	8



$C_s:150\text{pF}$ $R_d:330\ \Omega$

simplified diagram in ESD machine

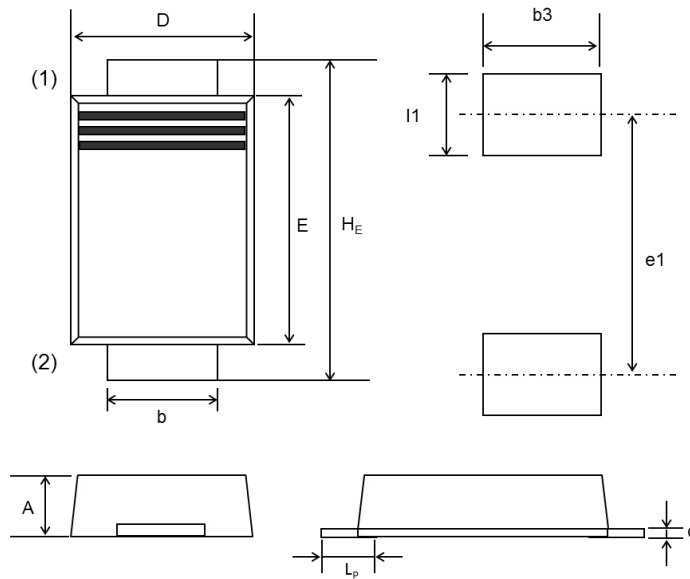
IEC61000-4-2 Waveform



oscilloscope

1. Set up ESD Tester at IEC61000-4-2 condition.
(IEC61000-4-2 : $C=150\text{pF}$, $R=330\ \Omega$)
2. Mount a sample on the high frequency test board with the SMA connector.
3. Connect the SMA connector to the oscilloscope by 50Ω cable.
Then, add the 10X-attenuator between test board and the cable to protect the oscilloscope.
4. Discharge ESD in contact discharge mode at any voltage.
(normally 8kV Max.)

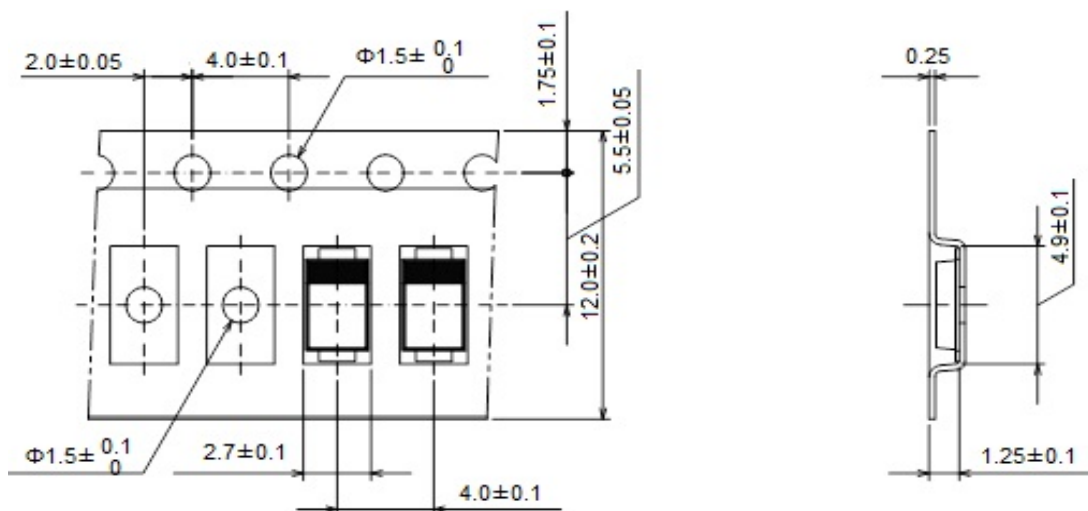
● Dimensions (SOD-128 PMDTM)



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A	0.85	0.95	1.05	0.033	0.037	0.041
b	1.30	1.50	1.70	0.051	0.059	0.067
c	0.12	0.17	0.27	0.005	0.007	0.011
D	2.30	2.50	2.70	0.091	0.098	0.106
E	3.50	3.70	3.90	0.138	0.146	0.154
HE	4.56	4.70	4.84	0.180	0.185	0.191
Lp	-	0.75	-	-	0.030	-
l1	-	1.40	-	-	0.055	-
b3	-	2.00	-	-	0.079	-
e1	-	4.40	-	-	0.173	-

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

● Taping (Unit:mm)



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 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.
- 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 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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VS26VUA1LAM - Web Page

[Distribution Inventory](#)

Part Number	VS26VUA1LAM
Package	PMDTM
Unit Quantity	3000
Minimum Package Quantity	3000
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes