

# Package : VCSP35L1

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## 1. Structure and materials

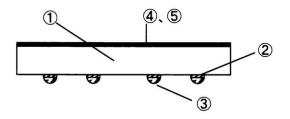


Fig. 1 Structure

## 2. Tape and Reel information

2. 1. Packing specification

Таре	Embossed carrier tape (heat sealing method)
Quantity	3,000pcs/Reel
Direction of feed	E2 (See Fig. 2)

2. 2. Tape and Reel specification

2. 2. 1. Tape and reel dimensions (See the table on page 2/4)

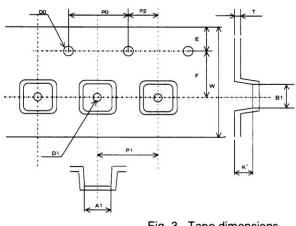


Fig. 3 Tape dimensions

No.	Item	Materials
1	Die	Silicon
2	Cu Post	Cu
3	Ext. terminal	Sn-3Ag-0.5Cu Solder
4	Mold Compound	Polyamide-imide Resin
5	Marking	Laser Marking

Dehydrated weight : 0.002g

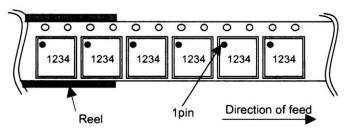
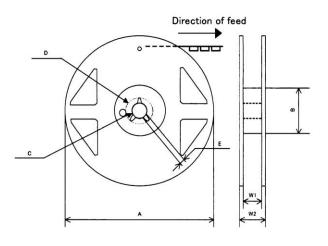
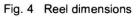


Fig. 2 Typical Tape and Reel configuration





(Tape	dimensions)	
· · · ·		

A1	B1	D0	D1	Е	F	Κ'	P0	P1	P2	Т	W
1.85	1.85	φ1.5	ф0.5	1.75	3.5	0.5	4.0	4.0	2.0	0.25	8.0
±0.1	±0.1	+0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.3

(Re	el dim	nensio	ns)			
Α	В	С	D	Е	W1	W2
φ180 +0 -1.5	60 MIN	φ13.0 ±0.2	φ20.2 MIN	1.5 MIN	9.0 +1.0 -0	11.4 ±1.0

(Unit : mm)

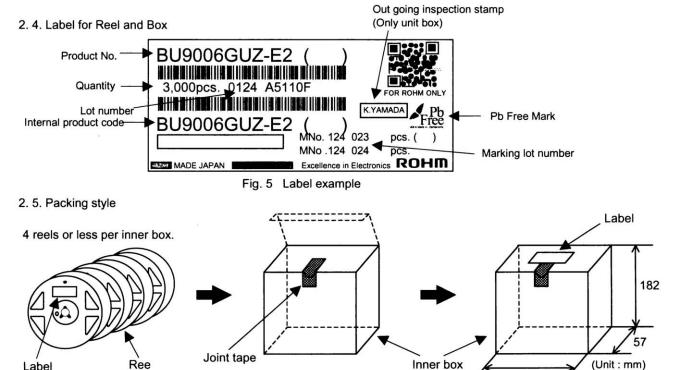
2.3. Leader and Trailer

2. 3. 1. Leader

No component pockets are 100 pockets(400mm) or more.

2. 3. 2. Trailer

No component pockets are 40 pockets(160mm) or more. Tape is free from reel.



2. 6. Shipping style

Label

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#### 2.7. Packing materials

183

4 unit boxes or less per shipping box.	Item	Material	Antistatic	
	Embossed carrier tape	PS	Yes	
	Cover tape	PET + PE	Yes	
255	Reel	PS	Yes	
190	Unit box	Cardboard	None	
	Shipping box	Cardboard	None	
(Unit : mm)	AIC 51.0"  001111   JAM1   50   JAM  BRV YOU    BRV YOU    BRV YOU    HUD LIT COLOR  HUD LIT COL	1         0         1.01 N/2           4752 3865         947747688           WHATWAINTER         1.01 N/2           WHATWAINTER         1.01 N/2	<shipping lat<br="">1. Product 2. Q' TY 3. N.O.C 4. LOT No</shipping>	t code

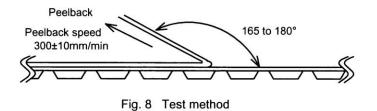
Fig. 6 Packing style



2.8. Others

2. 8. 1. Peelback strength

Cover tape peelback strength is 0.2 to 0.7N.



2. 8. 2. Missing Ics

(1) No consecutive dropouts.

(2) A maximun 0.1% of specified number of products in each packing may be missing.

## 3. Storage conditions

3. 1. Storage environment

Recommended storage conditions are as follows :

-Temperature : 5 to 30°C

: 40 to 70% RH

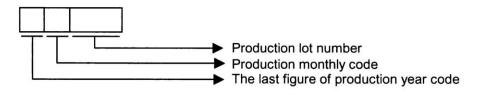
-Humidity 3. 2. Storage period

-Specified storage period : 1 year

3. 3. Specified storage period until soldering

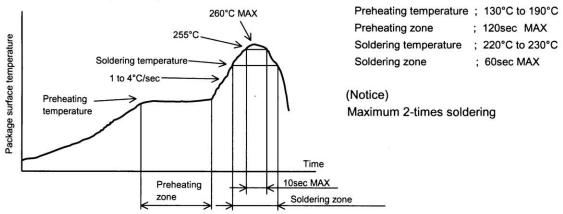
This package dose not require additional drying treatment as long as the moisture condition at the mounting process is within our recommended mounting condition.

## 4. Marking lot number



## 5. Soldering conditions

5. 1. Recommended temperature profile for reflow

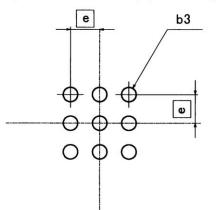


5. 2. About mounting with Sn-Pb solder paste.

Mounting with Sn-Pb solder paste is not recommended because it has a possibility of reducing reliability to connect with Sn-3.0Ag-0.5Cu solder balls.

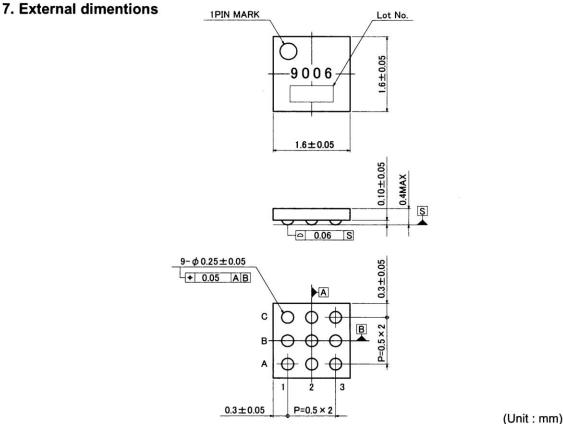
- 5. 3. The wave soldering method is not supported.
- 5. 4. Partical heat supply method (by soldering iron) is not supported.

6. Footprint dimensions (Optimize footprint dimensions to the board design and soldering condition)



Symbol	Reference Value
е	0.50
b3	Ф0.25

(Unit : mm)



#### 8. Precautions

8. 1. Caution for handling

Silicon substrate surface is exposing to the side of this package.

Therefore, please pay careful attention to chip and crack, and handle without touching the side of package.

#### 8. 2. Regarding the underfill material

In some case, the underfill material is applied in order to reinforce the solder junction of package. Since there is a case that solder joint reliability may deteriorate according to the resin material or coating condition, please evaluate it sufficiently for its application. In term of the coating condition, it is preferable that there is an enough material beyond the each four sides of package.

<Preferable example> <Non preferable example> 0000 0000 (There is a Underfill resin evenly at each four sides.) (There is little Underfill resin at one or two sides.)

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