

Package : VCSP50L1

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1. Structure and materials

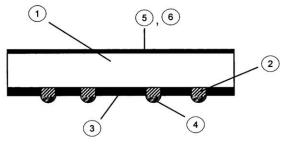


Fig. 1 Structure

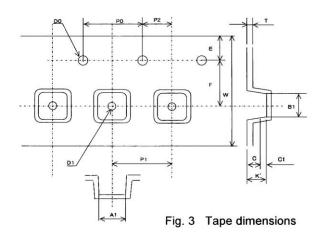
2. Tape and Reel information

2. 1. Packing specification

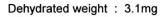
Таре	Embossed carrier tape
Quantity	3,000pcs/Reel
Direction of feed	E2 (See Fig. 2)

2. 2. Tape and Reel specification

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



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



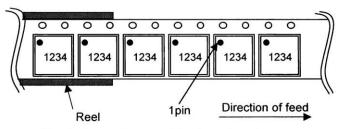
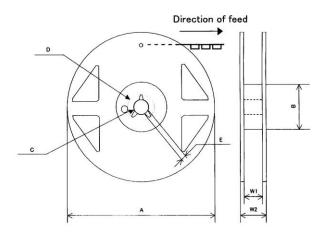
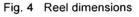


Fig. 2 Typical Tape and Reel configuration





T	1	
lane	dimensions)	
lupe		

•				/											×.
	A1	B1	С	C1	D0	D1	E	F	K'	P0	P1	P2	Т	W	
		2.00 ±0.1		(0.2)	φ1.5 +0.1	φ0.5 ±0.1	1.75 ±0.1	3.5 ±0.1	0.8 ±0.1	4.0 ±0.1	4.0 ±0.1	2.0 ±0.1	0.25 ±0.05	8.0 ±0.3	
					-0										

Α	В	С	D	Е	W1	W2
φ180 +0 -1.5	60 MIN	φ13.0 ±0.2	ф20.2 MIN	1.5 MIN	9.0 +1.0 -0	11.4 ±1.0

(Unit : mm)

2. 3. Leader and Trailer

2. 3. 1. Leader

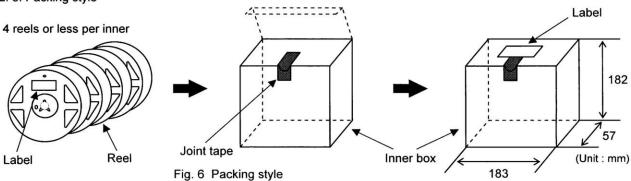
No component pockets are 100 pockets(400mm) or more.

2. 3. 2. Trailer

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

(Only unit box) 2. 4. Label for Reel and Box Product No. -BD5465GUL-E2 3,000pcs. 0124 A5110F Quantity Marking lot number Lot number K.YAMADA Internal product code BD5465GUL-E2 MNo. 124 02; pcs. Pb Free Mark MNo .124 024 Free pcs. ROHM SEMICONDUCTOR MADE IN JAPAN Fig. 5 Label example

2. 5. Packing style



2. 6. Shipping style

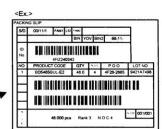
4 unit boxes or less per shipping box.

2.7. Packing materials

Out going inspection stamp

4 unit boxes or less per shi	inning hox	
4 unit boxes of less per sh	pping box.	Item
7		Embossed carrier
	1	Cover tape
255		Reel
	190	Unit box
V K X		Shipping box
(Unit : mm)	Shipping label g. 7 Shipping box dimensions	< <u>Ex.></u> <u>BO</u> 00111 7441 101 1440 0 141 441 101 1440 10 141 441 101 1440 10 141 441 1410 10 141 441 1410 10 141 441 1410 10 141 1410 1410 1410 1410 10 1410 1410 1410 1410 1410 10 1410 1410 1410 1410 1410 1410 10 1410 1410 1410 1410 1410 1410 1410 1

Item	Material	Antistatic	
Embossed carrier tape	PS	Yes	
Cover tape	PET + PE	Yes	
Reel	PS	Yes	
Unit box	Cardboard	None	
Shipping box	Cardboard	None	



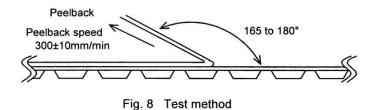
<Shipping label>

- 1. Product code 2. Q' TY
- 3. N.O.C
- 4. LOT No.

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 maximum 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 :

: 5 to 30°C -Temperature -Humidity

: 40 to 70% RH

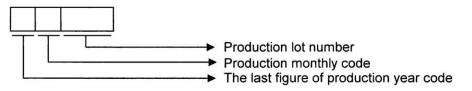
3. 2. Storage period

-Specified storage period : 1 year

3. 3. Specified storage period until soldering

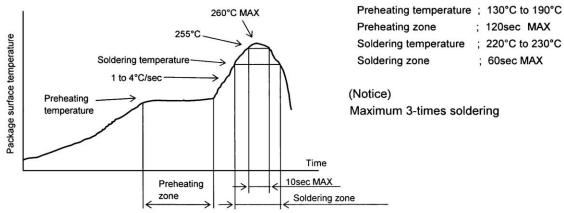
This package dose not require additional drying treatment as long as the moisture condition at the mounting process is within our recommended mounting condition.

4. Marking lot number



5. Soldering conditions

5. 1. Recommended temperature profile for reflow

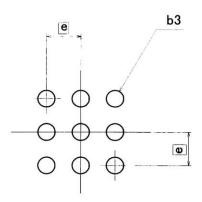


5. 2. About mounting with Sn-Pb solder paste.

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. Partial heat supply method (by soldering iron) is not supported.

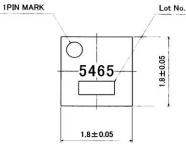
6. Footprint dimensions (Optimize footprint dimensions to the board design and soldering condition)

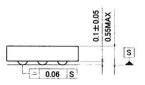


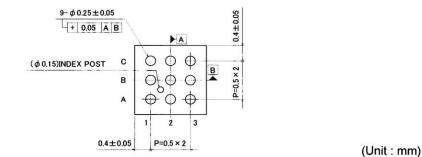
Symbol	Reference Value
е	0.50
b3	Ф0.25

(Unit : mm)

7. External dimensions







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> 00000

(There is a Underfill resin evenly at each four sides.)

<Non preferable example>

(There is little Underfill resin at one or two sides.)

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