

Package: VCSP85H4

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1. Structure and materials

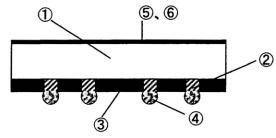


Fig. 1 Structure

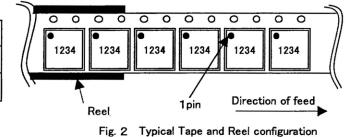
No.	Item	Materials
1	Die	Silicon
2	Cu Post	Cu
3	Encapsulation	Epoxy Resin
4	Ext. terminal	Sn-3Ag-0.5Cu Solder
⑤	Encapsulation	Polyamide-imide Resin
6	Marking	Laser Marking

Dehydrated weight: 0.03g

2. Tape and Reel information

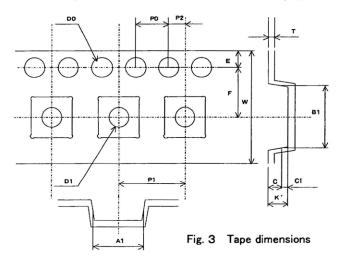
2. 1. Packing specification

Таре	Embossed carrier tape		
Quantity	2,500pcs/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)



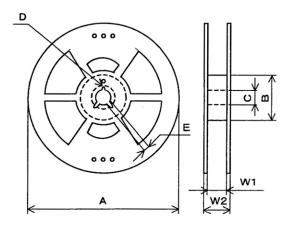


Fig. 4 Reel dimensions

(Tape dimensions)

A1	B1	С	C1	D0	D1	Ε	F	K'	P0	P1	P2	T	W
5.05	5.05 ±0.1	(0.85)	(0.30)	Ф 1.5 +0.1	Ф1.5 +0.1	1.75	5.5	1.15	4.0	8.0	2.0	0.3	12.0
0.1	0.1		1	-0	-0	0.1		0.1	_0.1	20.1	0.1	-0.00	0.5

(Reel dimensions)

Α	В	С	D	Ε	W1	W2
Ф330						
	MIN	±0.2	MIN	MIN	±1.0	±1.0
	141114	-0.2	141114	MITIA	-1.0	-

(Unit:mm)

2. 3. Leader and Trailer

2. 3. 1. Leader

No component pockets are 25 pockets or more.

2. 3. 2. Trailer

No component pockets are 10 pockets or more. Tape is free from reel.

2. 4. Label for Reel and Box

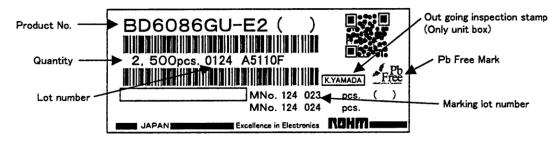
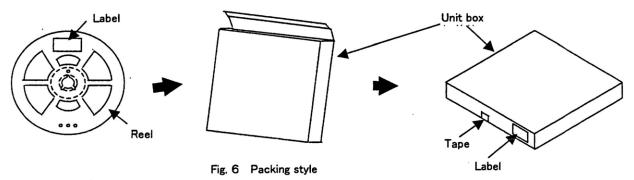


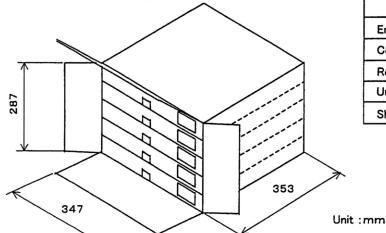
Fig. 5 Label example

2. 5. Packing style



2. 6. Shipping style

5 unit boxes or less per shipping box



2. 7. Packing materials

Item	Material		
Embossed carrier tape	PS		
Cover tape	PET + PE		
Reel	PS		
Unit box	Cardboard		
Shipping box	Cardboard		

Fig. 7 Shipping box dimensions and Shipping style

- 2. 8. Others
- 2. 8. 1. Peelback strength

Cover tape peelback strength is 0.2~0.7N.

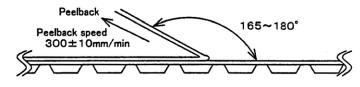


Fig. 8 Test method

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

: 5~30°C

-Humidity

: 40~70% RH

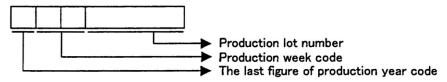
3. 2. Storage period

-Specified storage period: 1 year

3. 3. Specified storage period until soldering

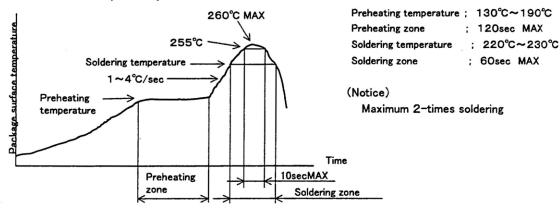
This package dose not require additional drying treatment as long as the moisture condition at the mounting process is within our recommended mounting condition.

4. Marking lot number



5. Soldering conditions

5. 1. Recommended temperature profile for reflow

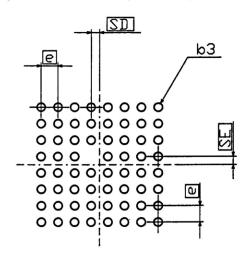


5. 2. About mounting with Sn-Pb solder paste.

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. 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		
SD	0.25		
SE	0.25		

(Unit:mm)

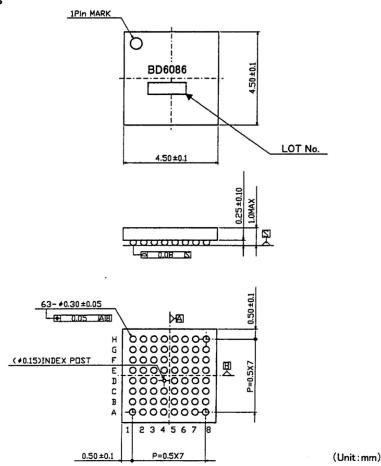
7. Regarding the underfill material

There are some cases that the underfill material is applied as purpose to reinforce the soldered junction of the package. Since the mount reliability depends on the resin material or coating condition, it may deteriorate on the contrary. Therefore, it is necessary to 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 a packeage.



8. External dimentions



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