

Materials

Package : VSON×××X series (E2)

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No.

Item

1.Structure and materials

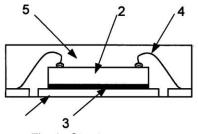


Fig. 1 Structure

Cu-Alloy 1 Lead Frame (External lead : Pb free solder plating) 2 Die Silicon **Die Attach** 3 Ag Paste Wire 4 Au Molding 5 **Epoxy Resin**

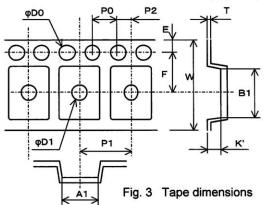
2. Tape and Reel information

2.1.Packing specification

Таре	Embossed carrier tape			0	0	0	0	0	0	0	0	0	0	0	\neg
Quantity	See the table on page 4/4		/	1234		1934		1234		1234		1234		1234	
Direction of feed	E2 (See Fig. 2)	(_	/				_((
		e		T						1					1000

2.2. Tape and Reel specification

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



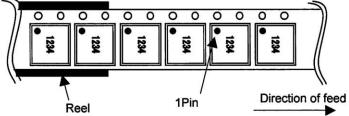
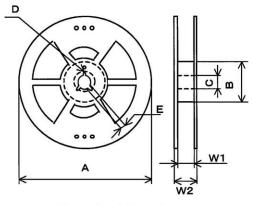
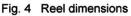


Fig. 2 Typical Tape and Reel configuration





2.3.Leader and Trailer

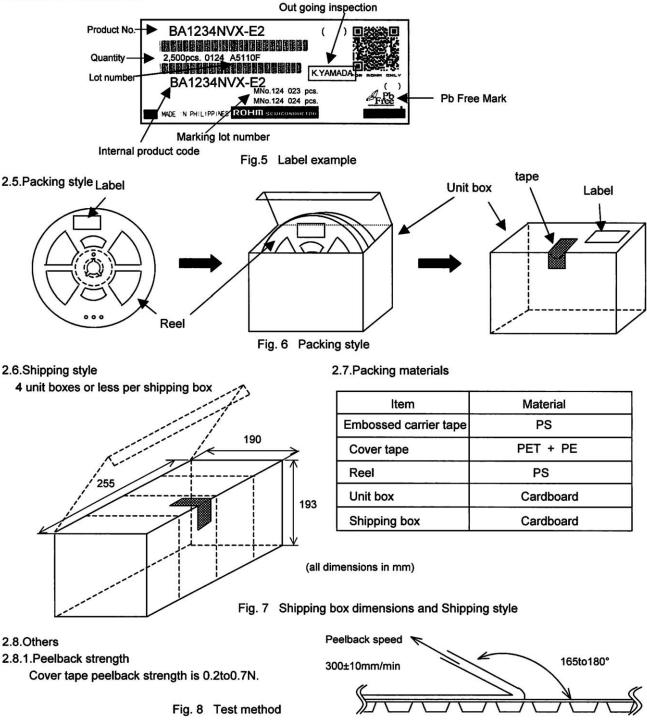
2.3.1.Leader

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.





2.8.2.Dropouts

(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

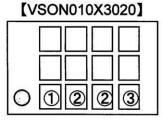
: 5to30°C : 40to70% RH

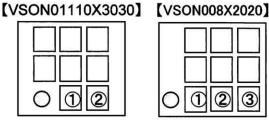
3.2. Storage period

-Specified storage period : 1year

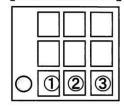
4.Marking lot number

-Humidity





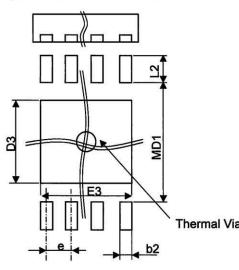
① Production year's week code 2 One last digit of week number ③ Production lot number



Production	vear's	week	code
	,		

Week	0	1	2	3	4	5
Even year	Α	в	С	D	Ε	F
Odd year	U	V	W	Х	Y	Z

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

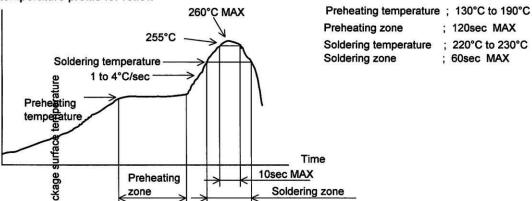


Package	Land pitch	ch Land space Lan MD1		length 2	Land width b2	
VSON010X3020	0 0.50 1.0 0.60		0.27			
VSON010X3030	0.50	2.0	0.80		0.27	
VSON008X2020	0.50	1.2	0.60		0.27	
Package	Radiaton lan length D3	nd Radiator V	1999 March 1997 (1997)		Thermal via ch Diamete	
VSON010X3020	0.54	2.4	9	Ē	φ0.3	
VSON010X3030	1.00	2.1	0	-	φ0.3	
VSON008X2020	0.70	1.6	0	æ.	¢0.3	

*The lead toe and lead side fillet may not be achieved because of non-lead packeges.

6.Soldering conditions

6.1.Recommended temperature profile for reflow

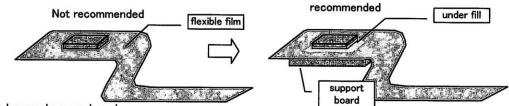


6.2. The wave soldering method is not supported.

- 6.3 Notice information of board mounting
 - Mounting on flexible film

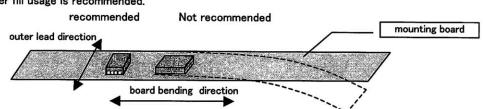
Mounting on flexible film, film bend may occur lack of lead from package,

usage of support board and under fill is recommended.

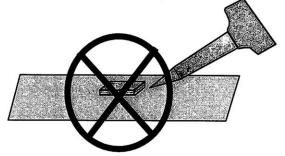


Mounting on long and narrow board

Mounting on long and narrow board, bending stress may occur a luck of lead from package, bending board direction and outer lead direction is recommended as drawing (vertically layout) and under fill usage is recommended.



6.4 Rework by solering iron is not allowed or it may cause mold crack and terminal open.



(Tape dimensions)

Package	Quantity				Таре	dimens	sions (a	ll dimen	sions in	mm)			
1 ackage	(pcs)	A1	B1	D0	D1	E	F	K'	P0	P1	P2	Т	W
VSON010X3020	4000	2.25	3.25	φ1.5	φ1.0	1.75	5.5	0.85	4.0	4.0	2.0	0.3	12.0
10011010/0020	4000	±0.1	±0.1	+0.1/0	±0.1	±0.1	±0.05	±0.1	±0.1	±0.1	±0.05	±0.05	±0.2
VSON010X3030	4000	3.3	3.3	φ1.5	φ1.1	1.75	5.5	0.75	4.0	4.0	2.0	0.25	12.0
	4000	±0.1	±0.1	+0.1/0	±0.1	±0.1	±0.05	±0.1	±0.1	±0.1	±0.05	±0.05	±0.2
VSON008X2020	4000	2.20	2.20	φ1.5	φ0.8	1.75	3.5	0.85	4.0	4.0	2.0	0.3	8.0
VCC11000A2020	4000	±0.05	±0.05	+0.1/0	±0.1	±0.1	±0.05	±0.05	±0.1	±0.1	±0.05	±0.05	±0.2

<Reel dimensions >

Package	Reel dimensions (all dimensions in mm)									
Fackage	Α	В	С	D	Е	W1	W2			
VSON010X3020	φ180	φ60	φ13.0	φ20.2	1.5	13.0	15.4			
VSON010X3030	φ180	φ60	φ13.0	φ20.2	1.5	13.0	15.4			
VSON008X2020	φ180	φ60	φ13.0	φ20.2	1.5	13.0	15.4			
Tolerance	-	+1.0/0	±0.2	MIN	MIN	+1.0/0	±1.0			

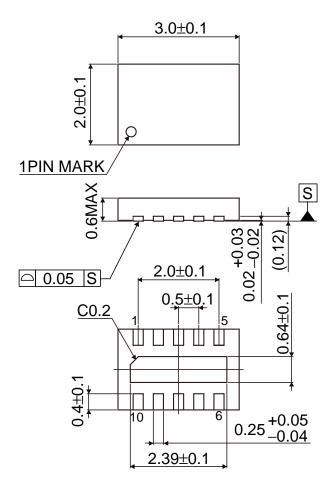
<Dehydrated weight >

D	ehydrated weight
	(g)
	0.009
	0.014
	0.006



Package Dimensions

VSON010X3020

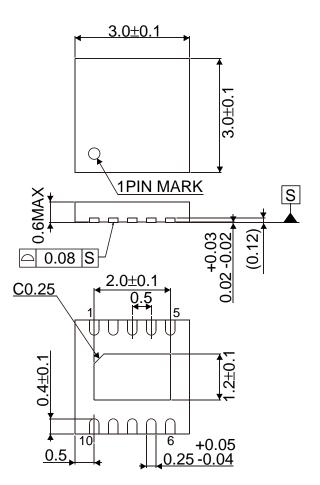


(Unit : mm)



Package Dimensions

VSON010X3030

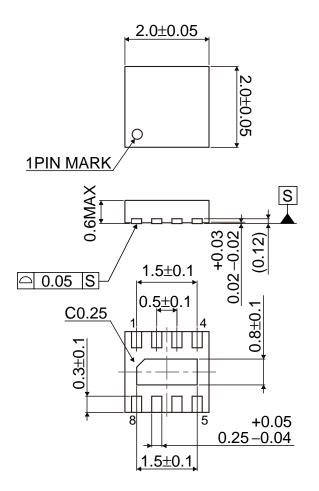


(Unit : mm)



Package Dimensions

VSON008X2020



(Unit : mm)

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