

Package: USON××X series (E2)

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1.Structure and materials

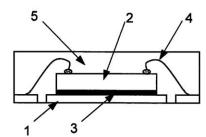


Fig. 1 Structure

No.	Item	Materials
1	Lead Frame	Cu-Alloy (External lead : Pb free solder plating)
2	Die	Silicon
3	Die Attach	Ag Paste
4	Wire	Au
5	Molding	Epoxy Resin

2. Tape and Reel information

2.1.Packing specification

Таре	Embossed carrier tape
Quantity	See the table on page 4/4
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 4/4)

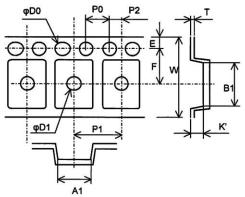


Fig. 3 Tape dimensions

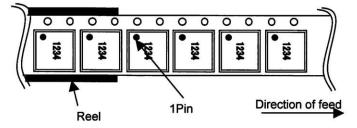


Fig. 2 Typical Tape and Reel configuration

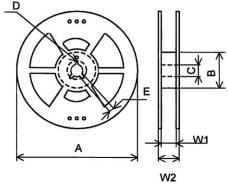


Fig. 4 Reel dimensions

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

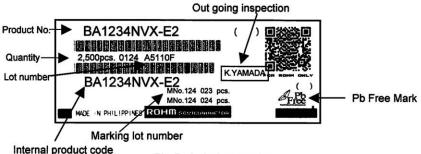


Fig.5 Label example

2.5.Packing style

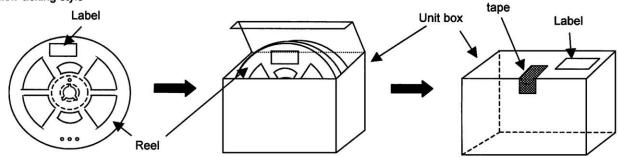
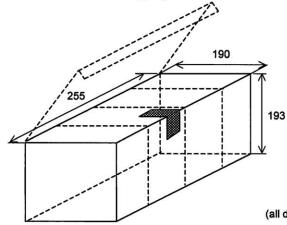


Fig. 6 Packing style

2.6. Shipping style

4 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	

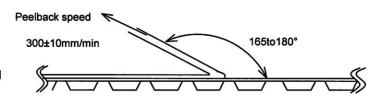
(all dimensions in mm)

2.8.Others

2.8.1.Peelback strength

Cover tape peelback strength is 0.2to0.7N.

Fig. 8 Test method



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

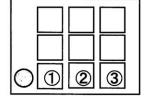
Recommended storage conditions are as follows:

-Temperature : 5to30°C -Humidity : 40to70% RH

3.2.Storage period

-Specified storage period : 1year

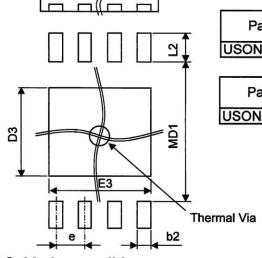
- 4.Marking lot number 1) Production year's week code
 - 2 One last digit of week number
 - 3 Production lot number



Production	year's	week	code

Week	0	1	2	3	4	5
Even year	Α	В	C	D	E	F
Odd year	U	V	W	Х	Υ	Z

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



(all dimensions in mm)

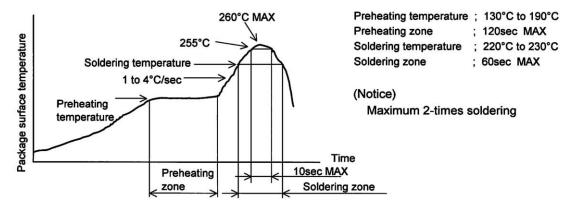
Package	Land pitch	Land space	Land length	Land width
Package	е	MD1	≧L2	b2
USON016X3315	0.40	0.80	0.65	0.22

Package	Radiation landlength	Radiation land width	Ther	mal via
Package	D3	E3	Pitch	Diameter
USON016X3315	0.50	2.90	-	ϕ 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

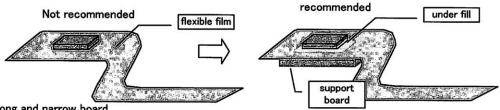


6.2. The wave soldering method is not supported.

6.3 Notice information of board mounting

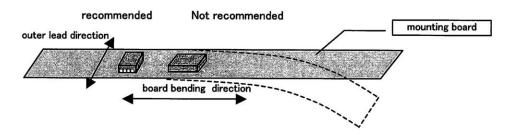
Mounting on flexible film

Mounting on flexible film, film bend may occur lack of lead from package, usage of support board and under fill is recommended.

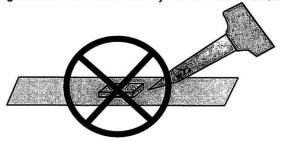


Mounting on long and narrow board

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		Tape dimensions (all dimensions in mm)										
Package	(pcs)	A1	B1	D0	D1	E	F	K'	P0	P1	P2	Т	W
USON016X3315	4000	1.85	3.65	φ1.5	φ1.0	1.75	5.5	0.75	4.0	4.0	2.0	0.25	12.0
000101000010	4000	±0.1	±0.1	+0.1/0	±0.1	±0.1	±0.05	±0.1	±0.1	±0.1	±0.05	±0.05	±0.3

<Reel dimensions >

Packago		Reel din	nensions	(all dim	ension	s in mm))
Package	Α	В	С	D	Е	W1	W2
USON016X3315	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 >

Dehydra	ted weight
((g)
0.	800

Notes

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