

# Package Information: SSOP-A54\_36

#### 1. Package Information

Package Name SSOP-A54\_36

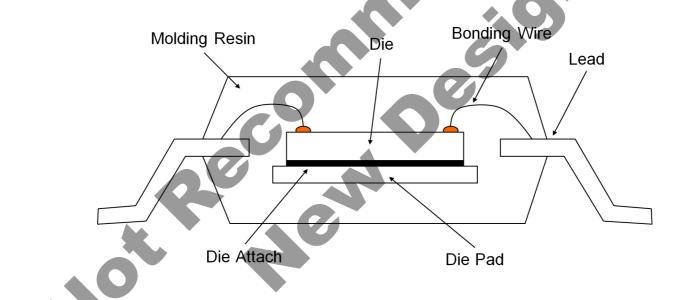
Type SOP Pin Count 36

Outline Dimension
Drowing No.

EX643-5001

Package Weight [g] 1.44
Lead Finish Pure Tin
MSL Level Level 3

## 2. Package Structure



SSOP-A54\_36 Package Information

## 3. Packing Specification

3.1 Packing form, Quantity, PIN1 Orientation

Packing Form Tape&Reel
Packing Quantity [pcs] 1000
PIN 1 Orientation E2

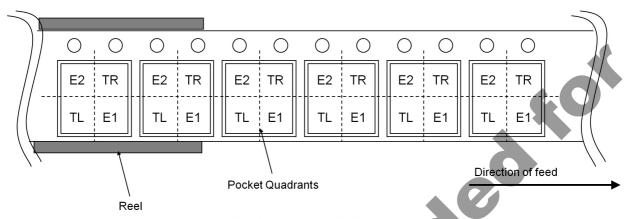


Fig.1 Quadrant Assignments for PIN 1 Orientation in Tape

E2 : PIN1 is placed to the top left corner. TR : PIN1 is placed to the top right corner.

TL : PIN1 is placed to the lower left. E1 : PIN1 is placed to the lower right.

#### 3.2 Use material

Item	Material
Embossed carrier tape	PS
Cover tape	PET+PE
Reel	PS
Desiccant	Silicagel
Envelope	Aluminum-laminated
Air cap	PE
Unit box	Cardboard
Shipping box	Cardboard

#### 3.3 Leader specification

No component pockets are 800 mm or more.

#### 3.4 Trailer specification

No component pockets are 200 mm or more. Tape is free from reel.

#### 3.5 Peelback strength

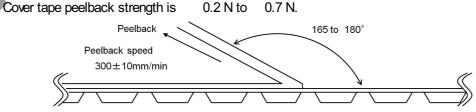


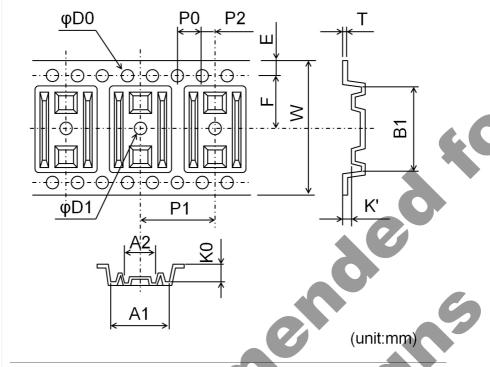
Fig. 2 Test method

#### 3.6 Missing Ics

- (1) No consecutive dropouts.
- (2) A maximun 0.1 % of specified number of products in each packing may be missing.

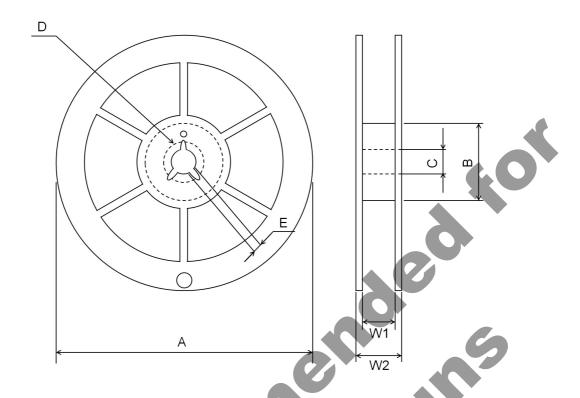
# 3.7 Tape and Reel Specification

# 3.7.1 Tape Dimension



	Tape Dimension	Tape Tolerance
A1	14.4	±0.1
A2	10.9	±0.1
B1	22.5	±0,1
D0	φ1.5	+0.1/-0
D1	φ2.0	+0.1/-0
E	1.75	±0.1
F	14.2	±0.1
K'	1.90	±0.1
K0	2.90	±0.1
P0	4.00	±0.1
P1	20.0	±0.1
P2	2.00	±0.1
T	0.30	±0.05
W	32.0	±0.3

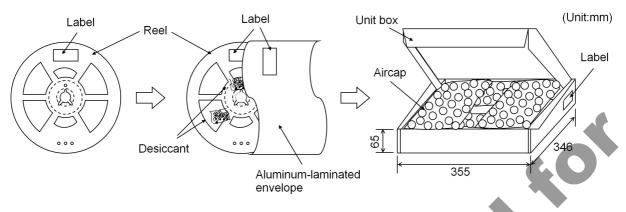
#### 3.7.2 Reel Dimension



		(drit.ffiff)
	Reel Dimension	Reel Tolerance
Α	330	+/-2.0
В	80	+/-1.0
С	13	+1-0.2
D	21	+/-0.8
E	2	+/-0.5
W1	33.5	+/-1.0
W2	37.5	+/-1.0

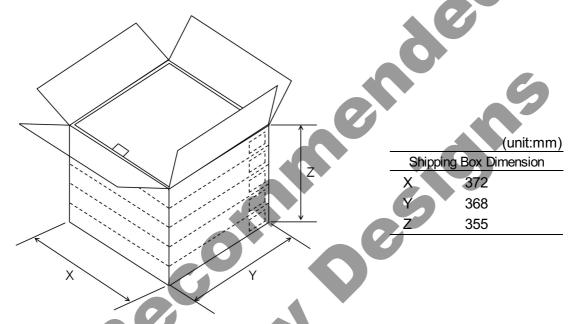
## 3.8 Packing Method

1 reel(s) or less per unit box

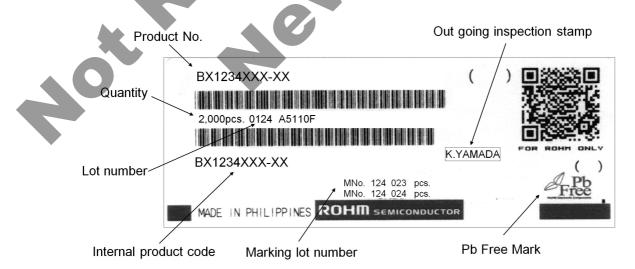


#### 3.9 Packing Style

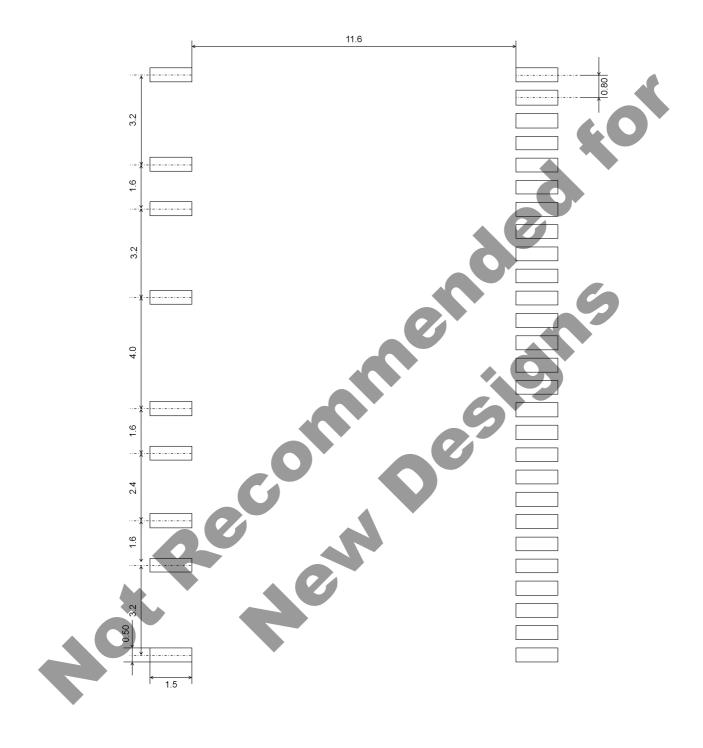
5 unit boxes or less per shipping box



# 3.10 Label Specification



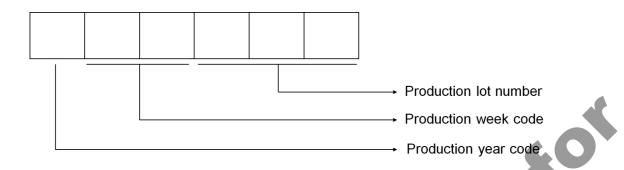
## 4. Footprint dimensions



(unit:mm)

In actual design, please optimize in accordance with the situation of your board design and soldering condition.

## 5. Marking Specification



## 6. Storage conditions

#### 6.1 Storage environment

Recommended storage conditions

	Min.	Max.	Unit
Temperature	5	30	°C
Humidity	40	70	% RH

#### 6.2 Storage period

	Min.	Max.	Unit
Storage period	-	1	year

#### 6.3 Specified storage period until soldering

	Min.	Max.	Unit
Acceptable time	-	168	hour

The above value is a time from opening the moisture-proof packaging until the soldering.

Cases where it is necessary to perform the drying process is the following.

Case 1: in excess of the above-mentioned "Acceptable time"

Case 2: it has passed more than a year not open

## Recommended the dry process conditions

	Temperature [°C]	Time [hour]
Reel <sup>(Note1)</sup>	60	48
Other Heat-proof container	125	24

(Note1) When carrying out the dry process in a "Reel" state, the peelback strength will change. Please refer to the following values:

	Min.	Max.	Unit
Peelback strength	0.2	0.9	N

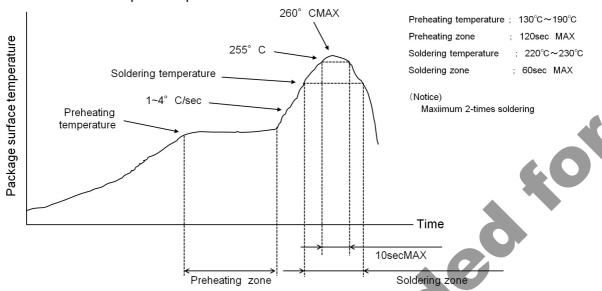
The drying process is the impact on the solderability because the oxidation of the terminal portion will occur. Therefore, specify the maximum times of the dry processing as follows:

#### Recommended execution count of the dry process

	Min.	Max.	Unit
Execution count	-	2	times

## 7. Soldering conditions

#### 7.1 Recommended temperature profile for reflow



## 7.2 Recommended condition for wave soldering

Preheating temperature : 120 °C to 150 °C

Preheating time : 60 sec MAX

Soldering temperature : 260  $^{\circ}$ C  $\pm$  3  $^{\circ}$ C

Soldering time : 12 sec MAX

#### Notes for wave soldering

- (1) Soldering time is provided for total soldering time in case of dual wave soldering.
- (2) Do not use other soldering methods with wave soldering.
- (3) Recommend to clean the board to eliminate flux, solder waste, and other impurities for reliability, after soldering.
- (4) Optimize soldering condition to prevent solder bridging.

# 7.3 Recommended condition for solder iron

Solder iron temperature : 380 °C or less Mounting time : 4 sec or less

#### Notes

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