

Package: SQFP-T

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1.Structure and materials

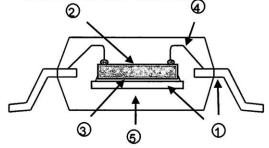


Fig. 1 Structure

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
6	Molding	Epoxy Resin

2. Tape and Reel information

2. 1. Packing specification

Таре	Embossed carrier tape(with dry pack)
Quantity	See the table on page 4/4
Direction of feed	E2 (See Fig. 2)



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

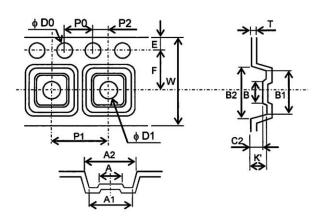


Fig. 3 Tape dimensions

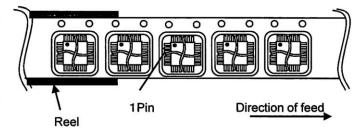


Fig. 2 Typical Tape and Reel configuration

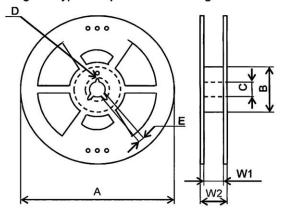


Fig. 4 Reel dimensions

2. 3. Leader and Trailer

2. 3. 1. Leader

No component pockets are 40 pockets or more.

2. 3. 2. Trailer

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

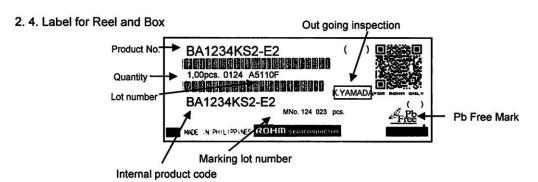


Fig. 5 Label example

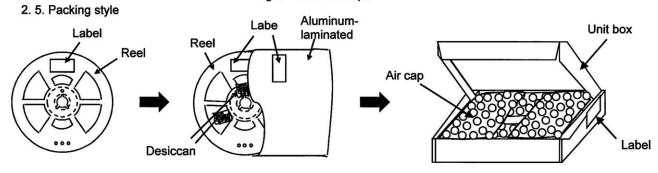
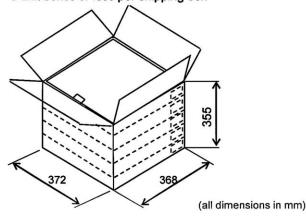


Fig. 6 Packing style

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
Desiccant	Silicagel
Envelope	Aluminume-laminated
Air cap	Polyethylene
Unit box	Cardboard
Shipping box	Cardboard

^{*}Please obey the indication of top side in a shipping box.

Fig. 7 Shipping box dimensions and Shipping style

Peelback

2. 8. Others

2. 8. 1. Peelback strength

Cover tape peelback strength is 0.2 to 0.7N.

ength is 0.2 to 0.7N.

Peelback speed
300±10mm/min

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 to 30°C -Humidity : 40 to 70% RH

3. 2. Storage period

-Specified storage period: 1 year

3.3. Specified storage period until soldering

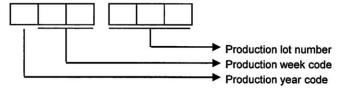
Regarding the dry packed packages, assemble package within 168hours, after dry pack is opened.

If the storage period has expired, the products must be baked 125°C for 24hours.

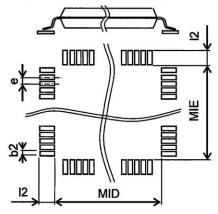
Maximum 2times baking for keeping solderbility.

Execute baking by 60°C/48hours while put in the embossed tape.

4. Marking lot number



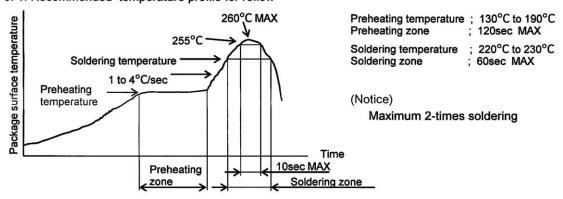
5. Footprint dimensions (Optimize footprint dimensions to the board design and soldering condition)



(all dimensions in							
Package	Land pitch	Land	space	Land length	Land width		
	е	MID	MIE	≥ 12	b2		
SQFP-T52	0.65	10.20	10.20	1.20	0.35		

6. Soldering conditions

6. 1. Recommended temperature profile for reflow



6. 2. Recommended condition for wave soldering

Deceses	Conditions					
Process	Temperature	Time				
Preheating	120°C to 150°C	60sec MAX				
Soldering	260°C± 3°C	12sec MAX				

(Notice) Soldering time is provided for total soldering time in case of dual wave soldering.

6. 2. 1. Notes for wave soldering

- (1) Do not use other soldering methods with wave soldering.
- (2) Recommend to clean the board to eliminate flux, solder waste, and other impurities for reliability, after soldering.
- (3) Optimize soldering condition to prevent solder bridging.

6. 3. Recommended condition for solder iron

Recommended condition for solder iron
-Solder iron temperature : 380°C or less
-Mounting time : 4sec or less

< Tape dimensions >

224	Quantity	Tape dimensions (all dimensions in r							nm)	
Package	(pcs)	Α	A1	A2	В	B1	B2	C2	D0	D1
SQFP-T52	1000	8.5	12.6	12.9	8.5	12.6	12.9	1.75	φ1.5	ф2.0
Tolerance		_	±0.1	±0.1	-	±0.1	±0.1	±0.1	+0.1	+0.1

Deekees	Tape dimensions (all dimensions in mm)								
Package	E	F	K'	P0	P1	P2	Т	W	
SQFP-T52	1.75	11.5	2.2	4.0	16.0	2.0	0.3	24.0	
Tolerance	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.3	

< Reel dimensions >

< Dehydrated weight >

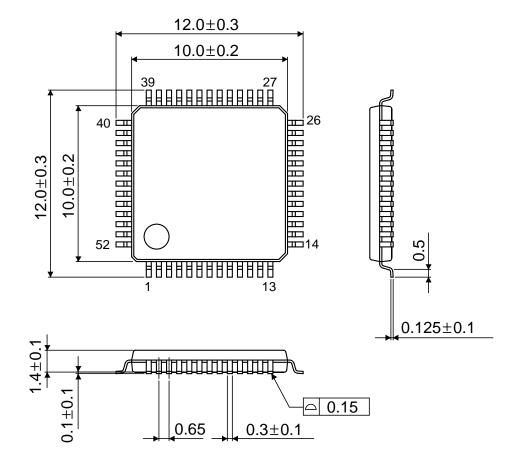
	Reel dimensions (all dimensions in mm)							
Package	Α	В	С	D	E	W1	W2	
SQFP-T52	ф330	φ100	φ13.0	ф20.2	1.5	25.5	30.5	
Tolerance	-	_	±0.2	MIN	MIN	±1.0	MAX	

Dehydrated weigh	t
dimensions in g	
0.36	1



Package Dimensions

SQFP-T52



(Unit: mm)

Notes

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