# Condition of soldering for Surface mounted mold Diodes Lead free paste (Sn-3Ag-0.5Cu) version

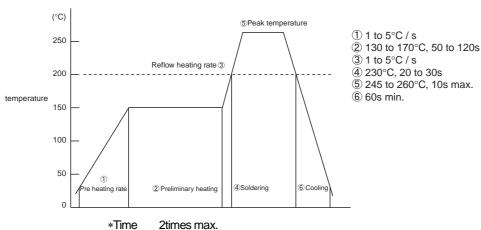
## **CONTENTS**

Recommended condition of reflow soldering	2/5
Recommended condition of flow soldering	2/5
Condition of hand soldering	2/5
Condition of heat-resistant	3/5
Recommended condition of washing	4/5
Reference to copper plate area dimension on printed circuit board	5/5

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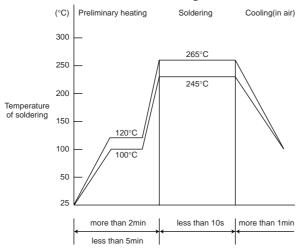
Rev.B

### Recommended condition of reflow soldering



Recommended peak temperature is over 245°C. If peak temperature is below 245°C, you may adjust the following parameters; Time length of peak temperature (longer), Time length of soldering (longer), Thickness of solder paste (thicker).

## • Recommended condition of flow soldering



#### Condition of hand soldering

Temperature refer to right table
Time less than 3s
Times one time

Temperature differ from PKG

PKG less than 400°C

SMD3, SMD4, SMD5, SMD6, SSD3,

UMD2(expect for 1SS355, 1SS380, 1SS376, UDZ S series)

UMD3, UMD4, UMD5, UMD6,

EMD2, EMD3, EMD4, EMD5, EMD6,

VMN2, VMD2, VMD3,

TUMD2, TSMD5, TSMD6,

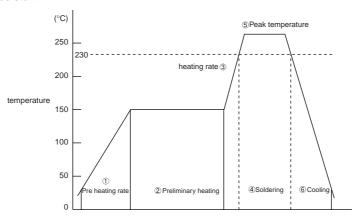
MPD, CPD, LLDS, LLDL

PKG less than 350°C

UMD2(1SS355, 1SS380, 1SS376, UDZ S series)

PMDU, PMDS, PMDT

## Condition of heat-resistant



- ① 1 to 5°C / s ② 150 to 180°C, 60 to 120s
- 31 to 5°C/s
- 4 230°C, 20 to 40s 5 260°C max, 10s max.
- 6 60s min.
- \* Time 2Times max.

# Recommended condition of washing

# 1. Washing liquid

washing liquid	manufacturers
water	-
ethanol	-
methanol	-
pine alpha ST-100S	ARAKAWA CHEMICAL
clean through 750H	KAO
technocare FRW-1	TOSHIBA TECHNOCARE
mighty solve AH-V	ASAHI GLASS

# 2. Condition of washing

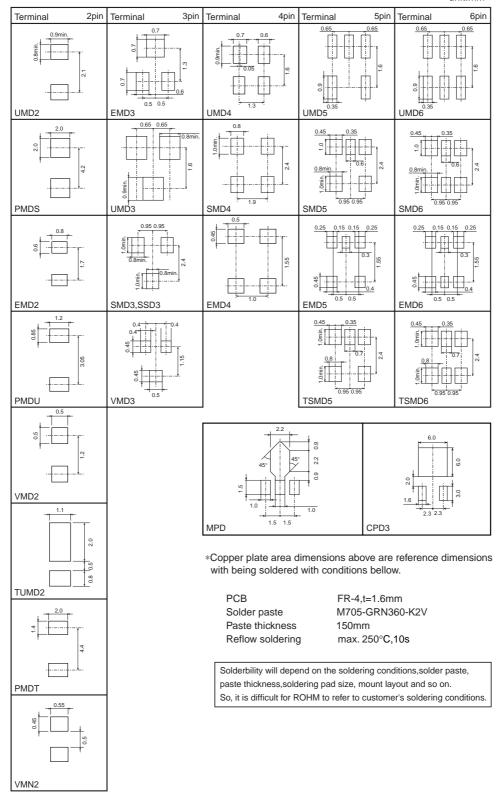
was	shing bath	time	temperature	remarks
first bath	ultrasonic bath	less than 60s	room temperature	25 to 28kHz, 15W / L
second bath	immersion bath	less than 60s	room temperature	
third bath	vaper bath *	less than 60s	less than 44.7°C	boiling points differ to washing liquid

<sup>\*</sup> In vaper bath,you can not use ethanol ,methanol and water due to their high boiling points.



## • Reference to copper plate area dimension on printed circuit board

unit:mm



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