



CONDITION OF SOLDERING  
FOR LEAD TYPE TRANSISTOR  
LEAD FREE (Sn-3Ag-0.5Cu) VERSION

CONTENTS

RECOMMENDABLE CONDITION OF SOLDERING DIP	2 / 3
RECOMMENDABLE CONDITION OF HAND SOLDERING	2 / 3
CONDITION OF HEAT-RESISTANT	2 / 3
TOLERANCE RANGE FOR HEATPROOF OF SOLDERING	3 / 3
RECOMMENDABLE CONDITION OF WASHING	3 / 3

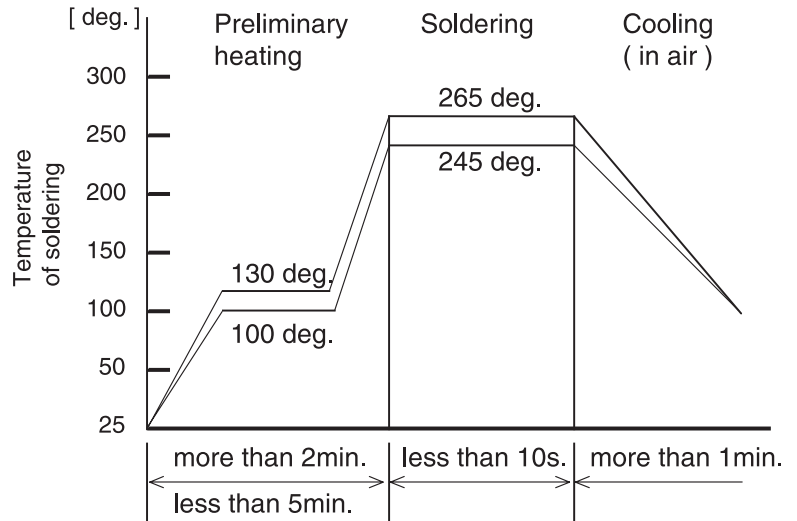
# LEAD TYPE TRANSISTOR

## TRANSISTOR

### CONDITION OF SOLDERING DIP AND HAND SOLDERING

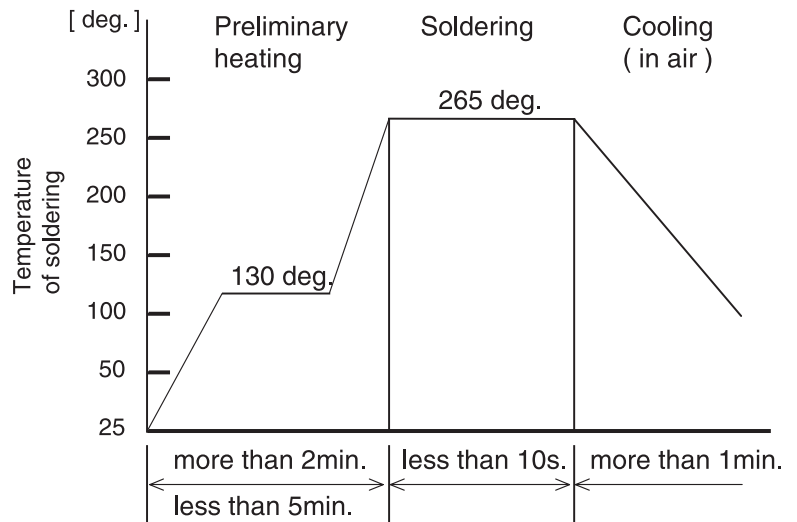
#### ■ CONDITION OF SOLDERING DIP

Soldering Temperature : 245 to 265 deg.  
 Soldering Time : 10s Max.



#### ■ CONDITION OF HEAT-RESISTANT

Soldering Temperature : 265 deg.  
 Soldering Time : 10s Max.



#### ■ CONDITION OF HAND SOLDERING

Temperature : Refer to Right Table  
 Time : 3s Max.  
 Number of Hand Soldering : One time

Temperature differ from Package

PKG less than 400 deg.

**ATV (2SC4010,2SC5083,DTA1\*\*\*V,DTC1\*\*\*V)**  
**SPT (2SC1740S,2SC1809S,2SC2058S,2SC2926S,2SC4043S,2SC4044S,DTA1\*\*\*S,DTC1\*\*\*S)**

PKG less than 350 deg.

**ATV (except for 2SC4010,2SC5083,DTA1\*\*\*V,DTC1\*\*\*V)**  
**SPT (except for 2SC1740S,2SC1809S,2SC2058S,2SC2926S,2SC4043S,2SC4044S,DTA1\*\*\*S,DTC1\*\*\*S)**  
**ATR , ATL , FTR , FTL , TO92 , TO92L , TO92LS , TO220SD , TO220FP , TO220FN , TO220FM, HRT , MRT , TO126 , TO126FP**

# LEAD TYPE TRANSISTOR

TRANSISTOR

## TOLERANCE RANGE FOR HEATPROOF OF SOLDERING



## CONDITION OF WASHING

### RECOMMENDABLE CONDITION OF WASHING

#### 1. WASHING LIQUID

washing liquid	maker
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

washing bath		time	temperature	remarks
first bath	ultrasonic bath	less than 60 s	room temperature	25 to 28kHz , 15W / L
second bath	immersion bath	less than 60 s	room temperature	
third bath	vaper bath *	less than 60 s	less than 44.7 deg.	the boiling point varies from washing liquid

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