

Product	SiC SBD / SiC MOSFET	Package	Surface Mount Devices
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1. REFERENCE CONDITION FOR WASHING

1-1. REFERENCE WASHING LIQUID

washing liquid		maker
Water		
Ethanol		
Methanol		
Pine alpha	ST-100S	ARAKAWA CHEMICAL
Clean through	750H	KAO
Technocare	FRW-1	MOMENTIVE performance materials
Mighty solve	AH-V	ASAHI GLASS

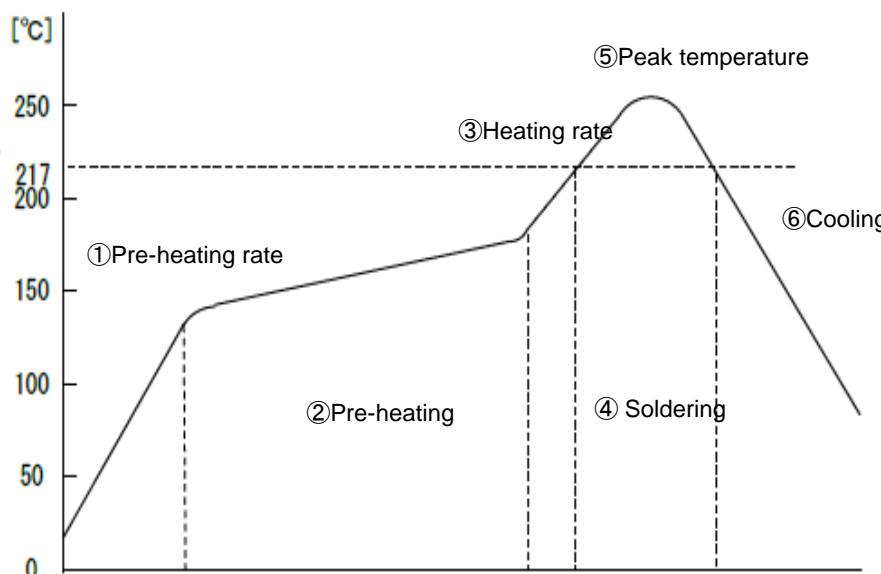
1-2. REFERENCE CONDITION FOR WASHING

Washing bath		Time	Temperature	Remarks
First bath	Ultrasonic bath	~60s	Room temperature	25~28kHz, 15W/cm ³
Second bath	Immersion bath	~60s	Room temperature	
Third bath	Vaper bath	~60s	~44.7°C	Temperature is depending on washing liquid.

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

2. REFERENCE CONDITION FOR REFLOW SOLDERING

Package surface temperature



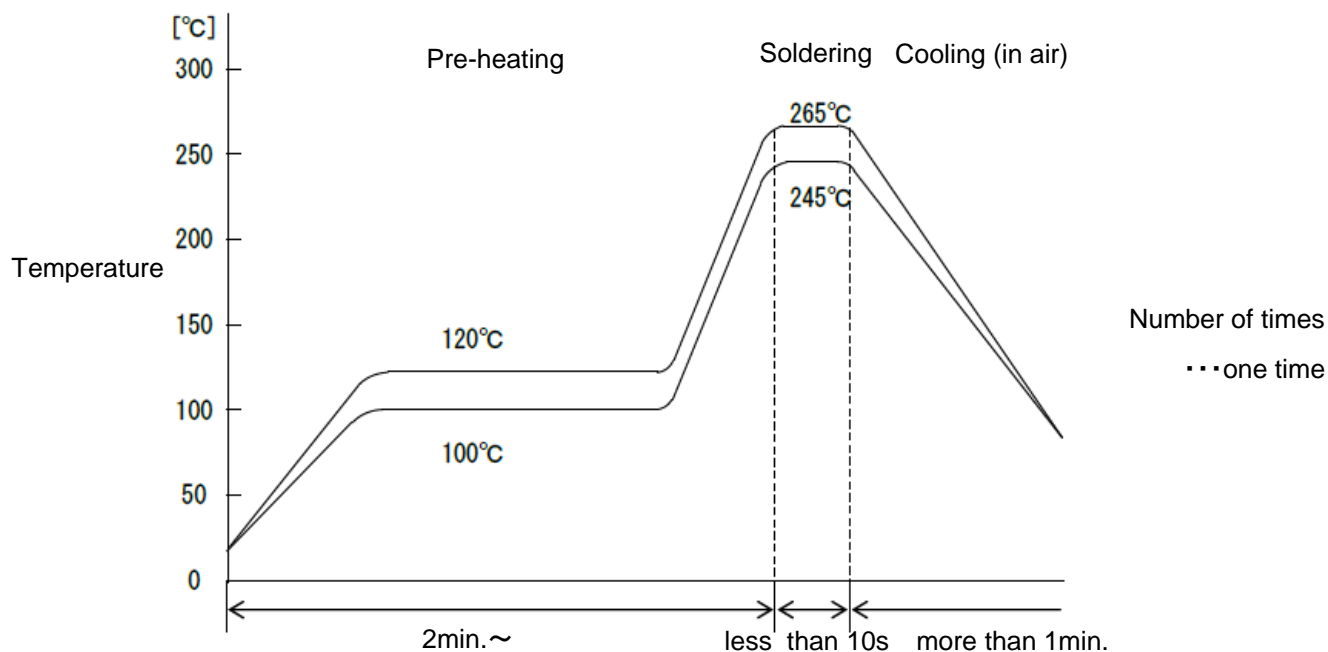
- Pre-heating rate 1~5°C/s
- Pre-heating . . . 130~170°C, 50~120 s
- Heating rate . . . 1~5°C/s
- Soldering . Over 217°C, 60~120 s
- Peak temperature
240°C, 10 s max. (T0-268-2L),
260°C, 10 s max. (LPTL, T0252M)
- Cooling 60 s min.
- Number of times 2 times max.

(Caution)

We concluded that there is no specific problem in characteristics and reliability under the temperature profile above.

However, since the most appropriate temperature profile condition differs depending on the solder paste, we highly recommend you to examine whether there is problem in your own condition.

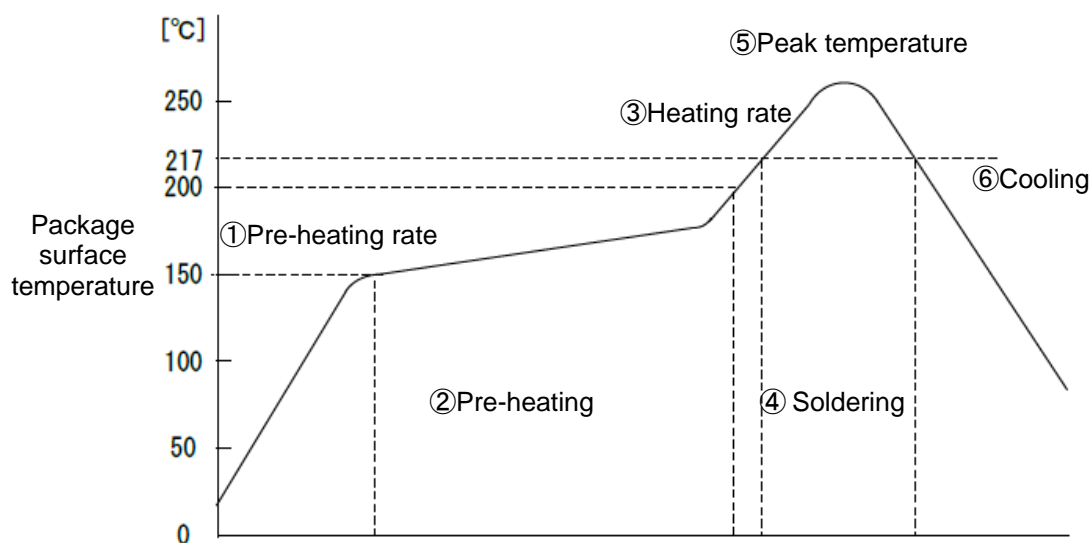
3.REFERENCE CONDITION FOR FLOW SOLDERING



4.REFERENCE CONDITION FOR HAND SOLDERING

- Temperature·····350°C
- Duration······less than 3 s
- Number of times one time

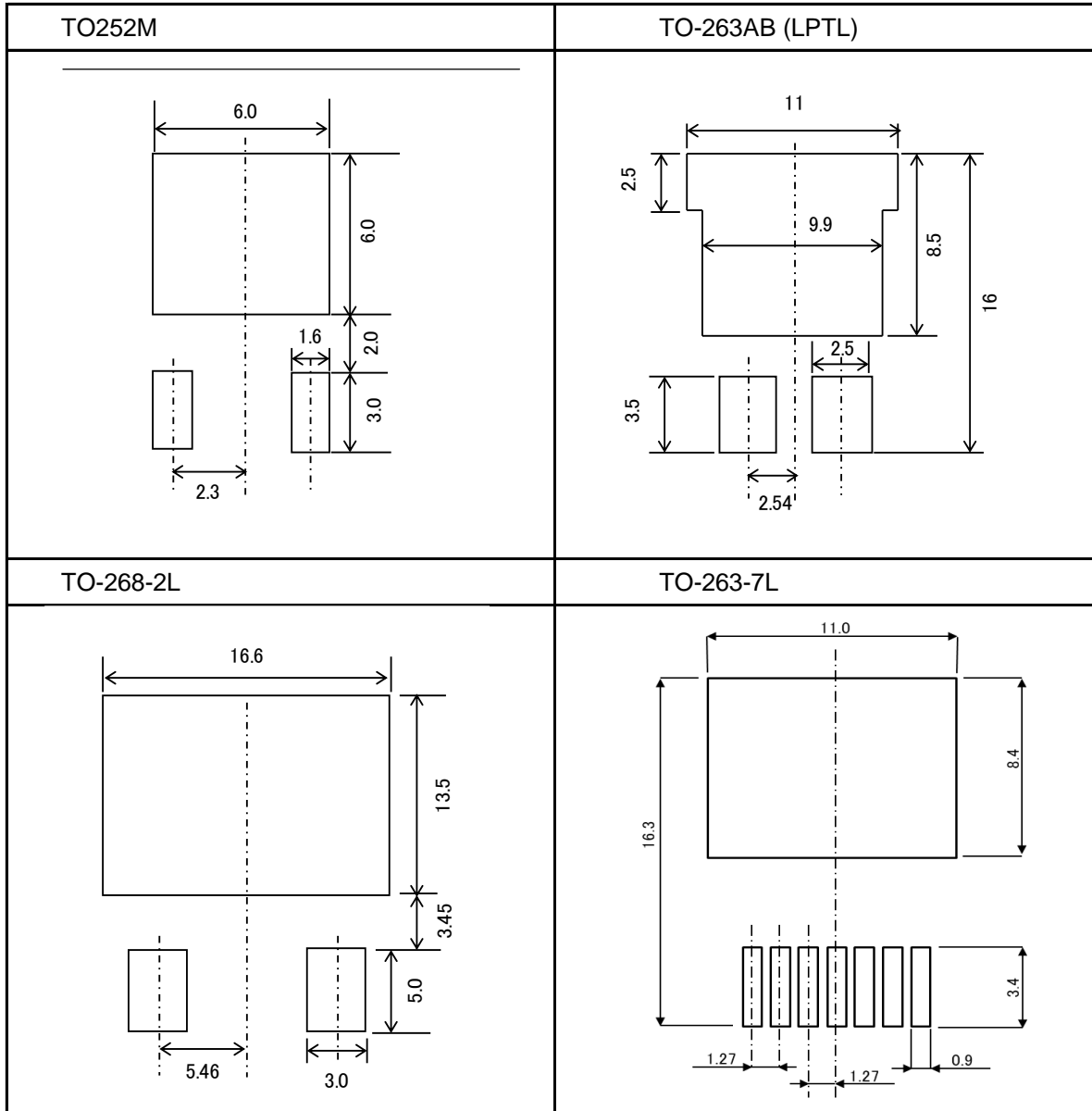
5.REFLOW PROFILE FOR HEAT-RESISTANCE TEST



- ①Pre-heating rate······5°C/s max.
- ②Pre-heating······150~200°C, 60~120 s
- ③Heating rate······3°C/s max.
- ④Soldering······Over 217°C, 60~150 s
- ⑤Peak temperature·····240~245°C, 20~40 s (T0-268-2L) 260~265°C, 20~40 s (LPTL, T0252M)
- ⑥Cooling······60s min.
- ⑦Number of times······3 times

6.FOOTPRINT DIMENSIONS FOR MOLDED SURFACE MOUNT DEVICES

(UNIT):mm



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