

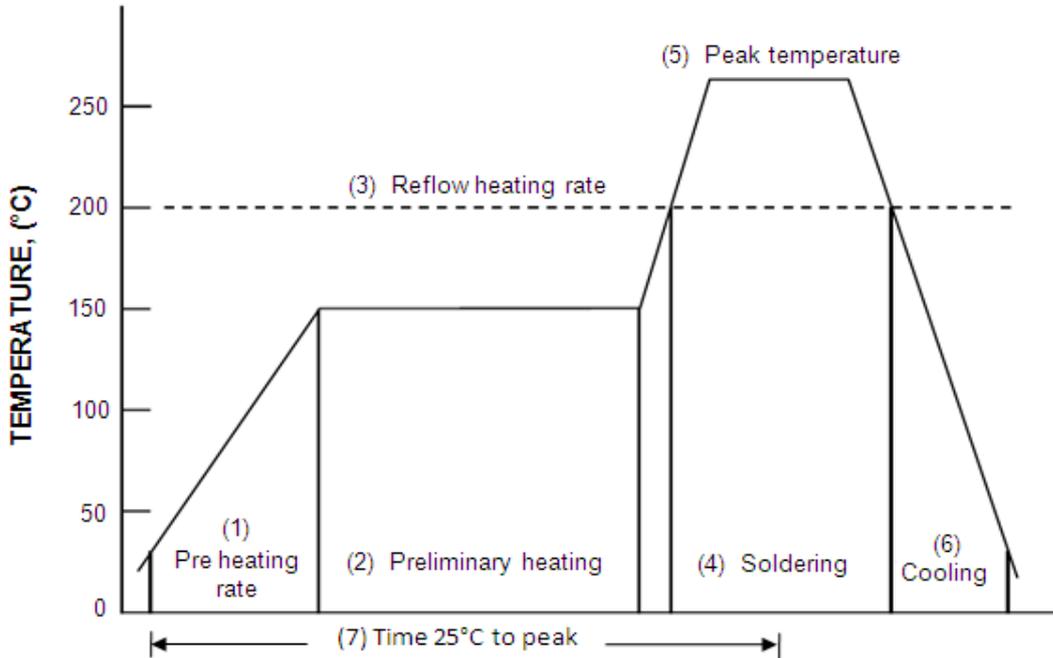


## EIC SEMICONDUCTOR COMPANY LIMITED

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### SOLDERING INSTRUCTIONS - SURFACE MOUNT DIODE (SMD)

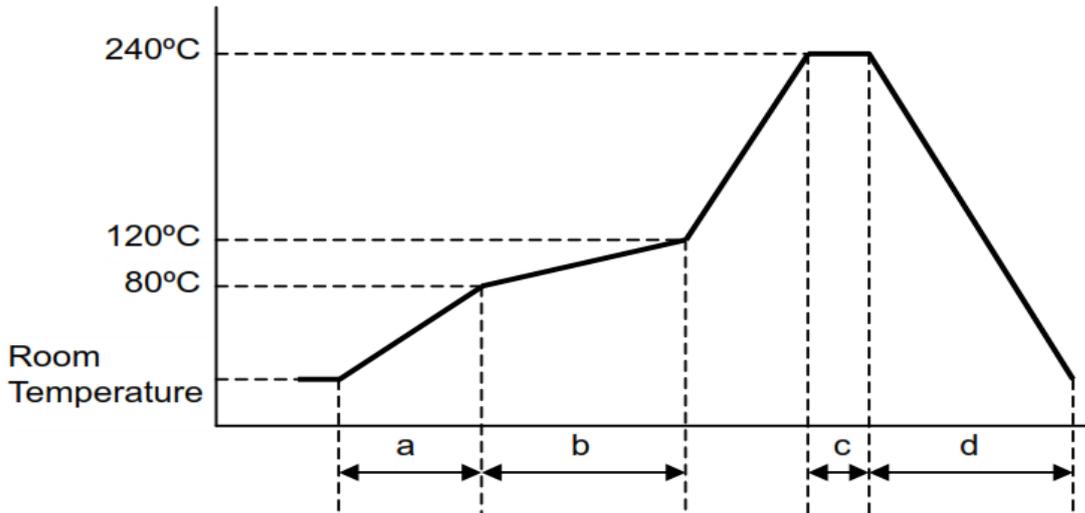
Recommended Pb-free reflow soldering condition for surface mount device



SMD Package	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Preheating rate	Preliminary heating	Reflow heating rate	Soldering	Peak temperature	Cooling rate	Time 25 °c. to peak
SOD-23, SOD-123, SOD-323, SOD-523, DO-215AC, SMA, SMA (DO-214AC), SMB(DO-214AA), SMC (DO-214AB), AR, MR, MBS, DFS, DFM	5°c./sec. Max	150-200 °c. 60-120 sec.	3°c/sec. Max	217 °c. 60-150 sec.	255-260 °c. < 10 sec.	6°c/sec. Max	<8 min.

Note: All temperatures refer to the center of package, measure on the package body surface that is facing up during assembly reflow.

**Recommended Pb-free reflow soldering condition for surface mount device**



SMD Package	(1)	(2)	(3)	(4)
	Heating rate	Pre-heating temperature	Peak temperature	Cooling rate
SOD-23, SOD-123, SOD-323, SOD-523, DO-215AC, SMA, SMA (DO-214AC), SMB(DO-214AA), SMC (DO-214AB), AR, MR, MBS, DFS, DFM	1-7°c./sec.	80-120 °c. 60-120 sec.	260 °C. <10 sec.	1-7°c./sec.

**Recommended Pb-free hand soldering condition**

Temperature: 350 °C.  
 Time: 3 sec. Max.  
 Times: one time



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### **Technical Note:**

- **Recommended cleaning conditions**

If cleaning is necessary after soldering, it is recommended to wash with washing solvent for semiconductors.

- **Recommended storage conditions**

Guarantee period shall be twelve months after the date products are received by customer on the follow conditions

1. Temperature 5 to 40°C (Recommended: 20 to 30°C )
2. Humidity 30 to 80% RH (Recommended: 40 to 60% RH )

Note: (This recommended period is for the soldering condition only. The characteristics and reliabilities of the products are not restricted to this limitation)

- **Moisture sensitivity level (MSL)**

All products are qualified and classified as Moisture Sensitivity Level 1 (MSL 1) and are designed to withstand standard soldering and moisture exposure conditions in accordance with recognized semiconductor industry practices.