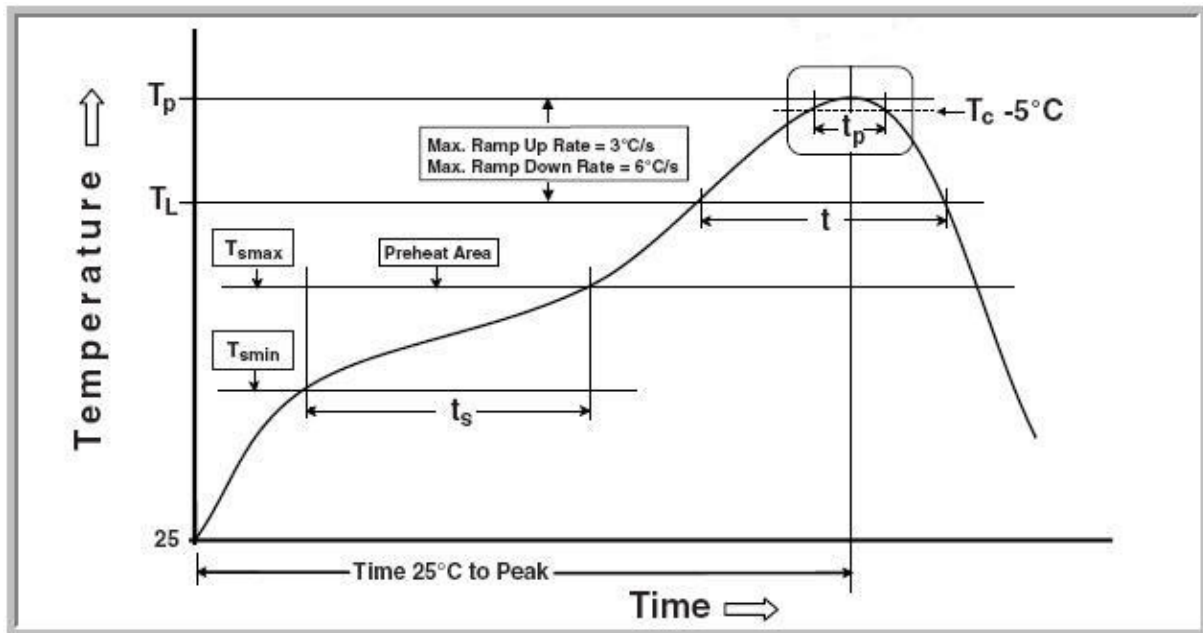


Solder profile for lead free Reflow Process



Figure 1 Classification Reflow Profile for SMT components



refer to IPC/JEDEC J-STD-020E

Table 1 Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (T_{Smax} to T_P)	3°C / second max.
Preheat	
Temperature Min (T_{Smin})	150°C
Temperature Max (T_{Smax})	200°C
Time (t_{Smin} to t_{Smax})	60-120 seconds
Time maintained above Temperature (T_L)	217°C
Time (t_L)	60-150 seconds
Peak/Classification Temperature (T_P)	See Table 2
Time within 5°C of the specified Peak Temperature (t_p)	20-30 seconds (WE-GF: 10sec; $T_P=245^\circ\text{C}$)
Ramp-Down Rate (T_P to T_L)	6°C / second max.
Time 25°C to Peak Temperature	8 minutes max.

refer to IPC/JEDEC J-STD-020E

Table 2 Package Classification Reflow Temperature

Package Thickness	Volume mm ³ <350	Volume mm ³ 350 - 2000	Volume mm ³ >2000
< 1,6 mm	260°C	260°C	260°C
1,6 mm – 2,5 mm	260°C	250°C	245°C
> 2,5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-020E

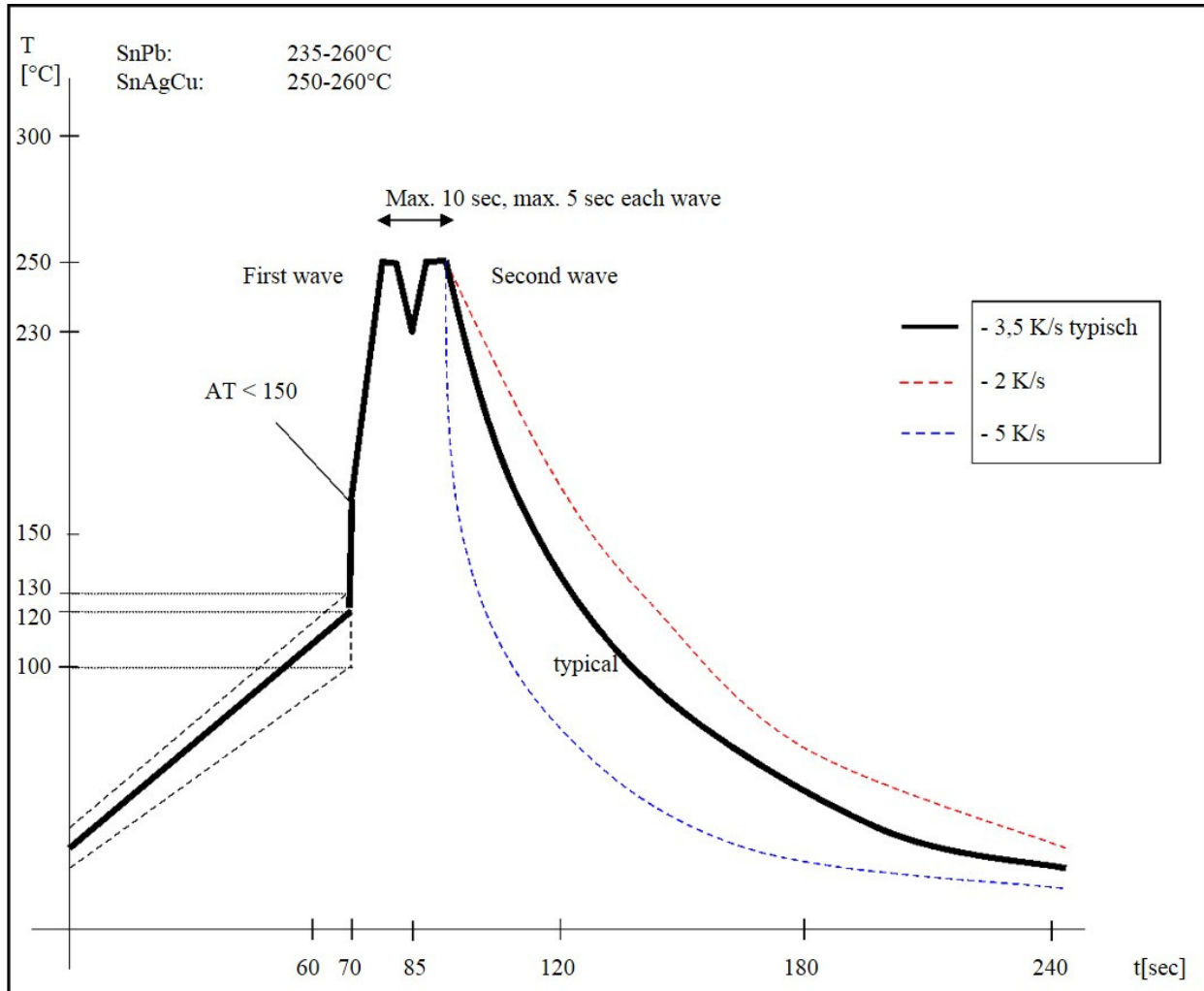
Note: All temperatures refer to topside of the package, measured on the package body surface Recommended for all parts which are marked with the RoHS logo not otherwise specified in the latest revision of the product specification



Solder profile for Wave Soldering Process



Figure 2 Classification wave soldering profile for THT components



refer to EN61760-1:2006

Checked	approved	Name	Revision	Date
Supervisor Lab	Head of Total Quality Management	TF	10	06.07.2017
i.A. <i>Thomas</i>	<i>i.A. D.</i>	TF	9	16.09.2015
		TF	8	19.04.2013