

Recommended Reflow Soldering Profile

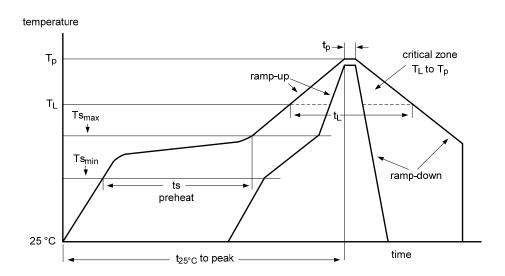
Limiting Values*

The below temperature profile for moisture sensitivity characterization is based on the IPC/JEDEC joint industry standard: J-STD-020D-01.

Profile Feature	SnPb eutectic assembly	Pb-free assembly
Average ramp-up rate $(T_{smax} \text{ to } T_p)$	3 °C/s maximum	3 °C/s maximum
Preheat		
Temperature minimum (T _{smin})	100 °C	150 °C
Temperature maximum (T _{smax})	150 °C	200 °C
Time (t _{smin} to t _{smax})	60 s to 120 s	60 s to 180 s
Time maintained above		
Temperature (T _L)	183 °C	217 °C
Time (t _L)	60 s to 150 s	60 s to 150 s
Peak/classification temperature (T _p)	235 °C	260 °C
Number of allowed reflow cycles	3	3
Time within 5 $^{\circ}\text{C}$ of actual peak temperature (t_p)	10 s to 30 s	20 s to 40 s
Ramp-down rate	6 °C/s maximum	6 °C/s maximum
Time 25 °C to peak temperature	6 minutes maximum	8 minutes maximum

^{*} applicable for devices from NXP Business Line GA Discretes. Pb-free assembly data on base of SnAg3.8Cu0.7 (SAC).

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