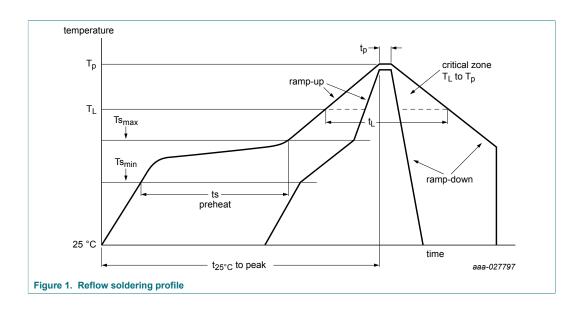
1 Recommended reflow soldering profile

The below temperature profile for moisture sensitivity characterization is based on the IPC/JEDEC joint industry standard: J-STD-020D-01. The shown data is for devices with a package thickness < 2.5 mm and a package volume < 350 mm³.

Table 1. Limiting values

Profile Feature	SnPb eutectic assembly	Pb-free assembly
Average ramp-up rate (T _{Smax} 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 120 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 °C of actual peak temperature (tp)	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





All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent- or other industrial or intellectual property rights

