

CS-001

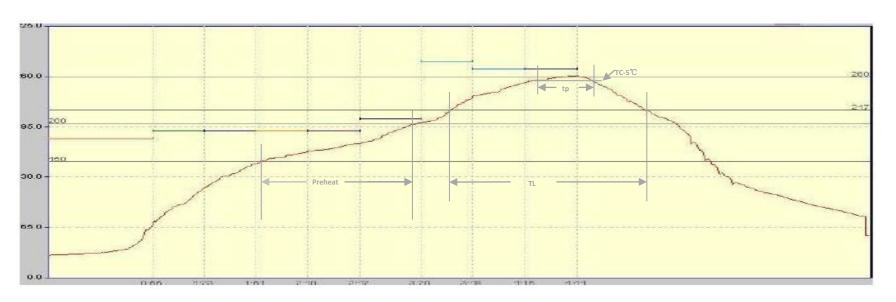
Page 1 of 5

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-020F.

Profile Feature	Pb-free assembly(Requirement)	Actual	
Preheat			
Temperature minmum(T _{smin})	150℃	150 ℃	
Temperature maxmum(T _{smax})	200℃	200 ℃	
Time(t _{smin} to t _{smax})	60s to 120s	115s	
Time maintained above			
Temperature(T _L)	217 ℃	217 ℃	
Time(t _L)	60s to 150s	111s	
Peak/classification temperature(T _p)	260 ℃	260 ℃	
Number of allowed reflow cycles	3	3	
Time within 5°C of actual peak temperature(T _p)	>30s	32s	

^{*} Applicable for LRC surface mounted devices.





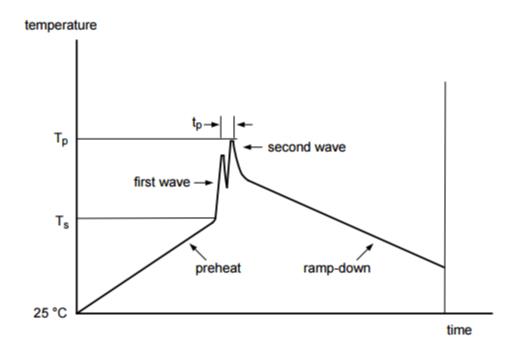
CS-001

Page 2 of 5

Wave Soldering Profile Limiting Values*

Profile Feature	Pb-free assembly
Average ramp-up rate	~200℃/s
Heating rate during preheat	Typical 1-2,max 4°C/s
Final preheat temperature Heating rate temperature Ts	~130℃
Peak temperature(T _p)	260℃
Time within peak temperature(T _p)	10s
Ramp-down rate	5℃/s maximum

^{*} Applicable for LRC through-hole devices.





CS-001

Page 3 of 5

Resistance to Solder heat

Surface Mount Solid State Devices:

Soldering Dip Temperature: 260+5/-0, Time: 10 +/- 1seconds

Remark:

Follow JEDEC industry standard: JESD22-A111. Applicable for Surface Mount Solid State Devices.

Through-hole Devices:

SnPb solder bath temperature: 260 $^{\circ}$ C \pm 5 $^{\circ}$ C, Time:10 +2/-0 seconds

Pb-free solder bath temperature: 270 $^{\circ}$ C \pm 5 $^{\circ}$ C, Time: 7+2/-0 seconds

Remark:

Follow JEDEC industry standard: JESD22-B106D. Applicable for Through-Hole Mounted Devices.

CS-001

Page 4 of 5

Recommended Manual Soldering Condition Limiting Values*

Soldering Temperature:350+/-10 °C

Time: Max. 3 seconds



CS-001

Page 5 of 5

Note:

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