

1. Scope:

This specification shall apply to all Rectron products with "Pb-free" external terminals.

- 2. Electrical Characteristics: Refer to individual device datasheet.
- 3. Thermal Resistance Characteristics: Refer to individual device datasheet.

4. Reliability Standard:

a. Pb-free products will continue to meet the same solderability standard as the previous Pb plated versions.

	Pb soldering version	Pb-free soldering version
Solderability	MIL-STD-202F METHOD 208D	MIL-STD-202F METHOD 208D
	Solder Temp: 230±5°C	Solder Temp: 230±5°C
	Immersion time: 5(7)+/- 0.5 Sec	Immersion time: 5(7)+/- 0.5 Sec
	Solder alloy: Pb-Sn	Solder alloy: Sn-Ag-Cu

5. Solder Resistance Conditions:

a. Pb-free products will continue to meet the same solder resistance conditions as the previous Pb plated versions.

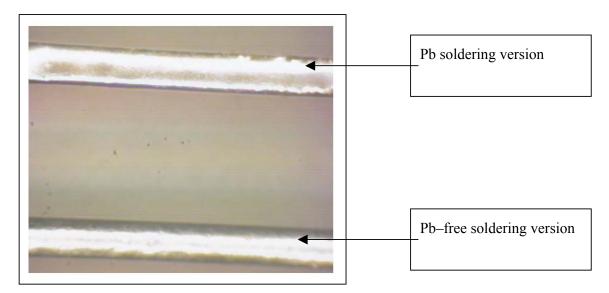
	Soldering temp.	Immersion time	Reference standard
a	260±5℃ (Solder bath)	10±2 Sec	MIL-STD-750C METHOD 2031
b	350±10℃ Hand soldering	3±0.5 Sec	MIL-STD-750C METHOD 2031

No defects were found after solderability & solder resistance testing.

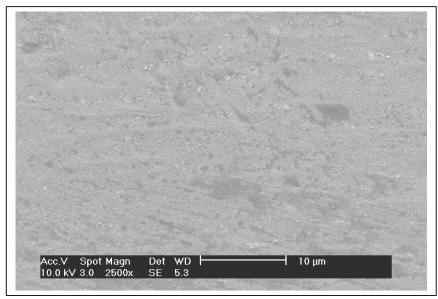
PREPARED	DATE	APPROVED	DATE
J H Wang	Sep 16, 2004	Richard	Sep 16, 2004



- 6. Solderability Test Results:
 - a. Test leads under microscope, no abnormalities found.



7. Result of Whisker Growth Test: no significant whisker growth detected

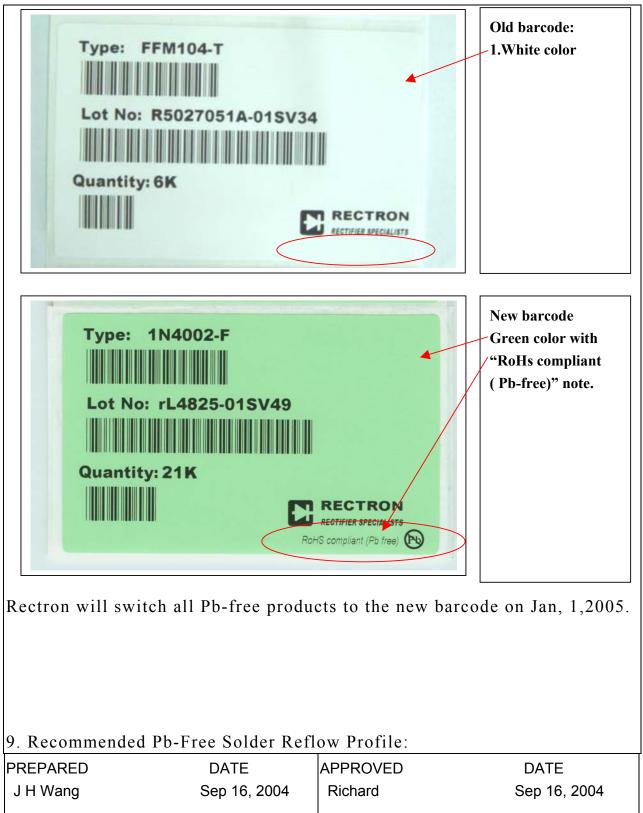


X2500 (Enlarge)

8. Labeling:

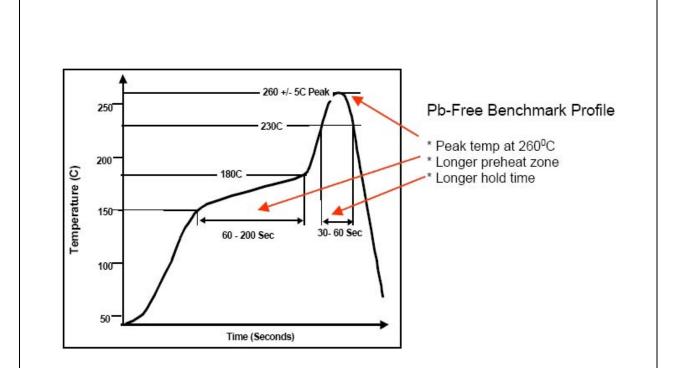
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10. Conclusion:

As part of our effort to meet the new environmental regulations of RoHS, Rectron will switch all production to a Pb-free plating process on Jan 1st, 2005. After Jan 1st, 2005, 100% Sn will replace solder (Pb/Sn) as Rectron's standard terminal plating material. From the above analysis, we see no impact to our customer's processes. However, Pb-free samples of all products are available to any customer seeking to perform trial runs on their soldering lines. Please feel free to contact your local Rectron Sales office.

PREPARED	DATE	APPROVED	DATE
J H Wang	Sep 16, 2004	Richard	Sep 16, 2004