

SUMMARY OF TEST RESULTS FOR NATIONAL LVDS DS90C031 HEAVY ION TESTING BROOKHAVEN NATIONAL LABS

Device: LVDS DS90C031

Test Date: September 1997

Prepared By: R. Katz (NASA/GSFC) and A. Feizi (J&T)

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A third round of heavy ion testing has been completed. Latch up currents of approximately 30 mA were seen in each test. The following is a summary of the September, 1997 test data.

The die have been examined and were marked as: DS90C031B, denoting revision B die.

Run #	S/N	Ion	Angle	LET	Latch	Logic Upsets	Fluence
Run 1	LVT1	Bromine	0	37	No	16	1.0×10^7
Run 2	LVT1	Bromine	45	52	Yes		4.3×10^6
Run 3	LVT1	Bromine	34.5	45	Yes		5.7×10^6
Run 4	LVT1	Bromine	25	42	No	8	1.0×10^7
Run 5	LVT2	Bromine	0	37	Yes		5.1×10^5
Run 6	LVT2	Bromine	0	37	Yes		2.1×10^6
Run 7	LVT3	Bromine	0	37	No		1.0×10^7
Run 8	LVT3	Bromine	45	52	No	22	1.0×10^7
Run 9	LVT3	Bromine	52	60	No	20	1.0×10^7