

RADIATION TEST REPORT

PRODUCT: AD844SQ/QMLR

MASK:

FILE:

DATE CODE:

GAMMA: 0, 100K, 24Hr

GAMMA SOURCE: Co60

DOSE RATE: 43.82 rad/sec

FACILITIES: National Semiconductor
Sunnyvale, Ca.

TESTED: March 04, 2004

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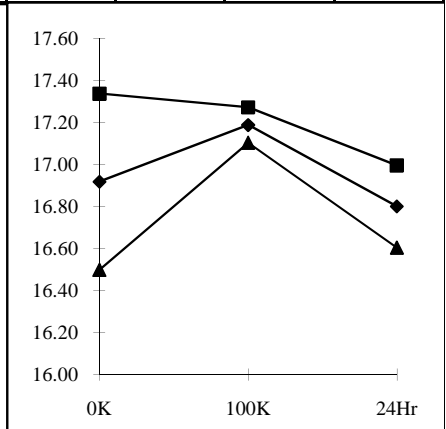
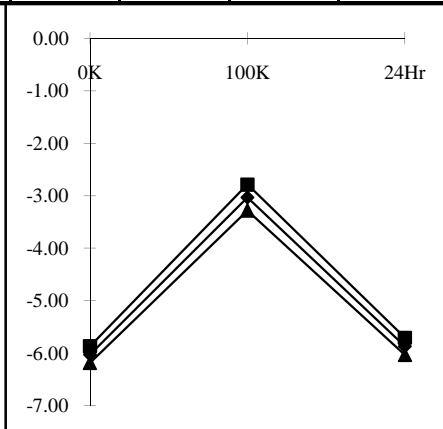
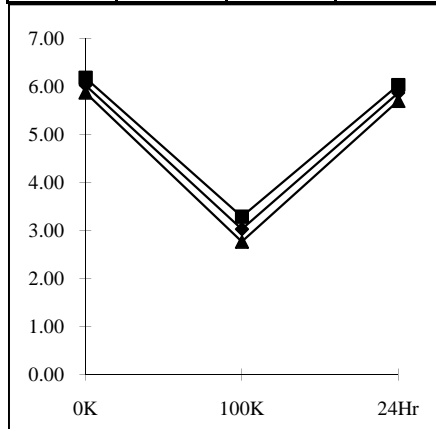
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WARNING:

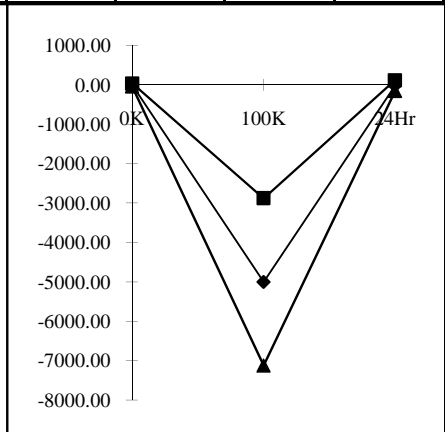
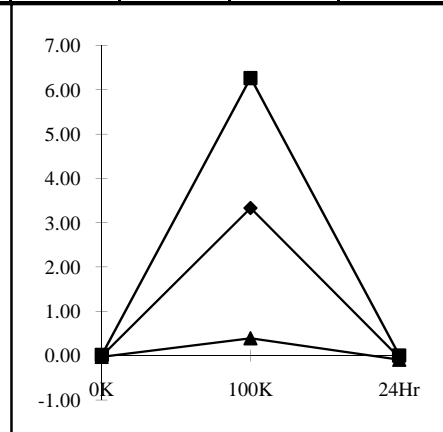
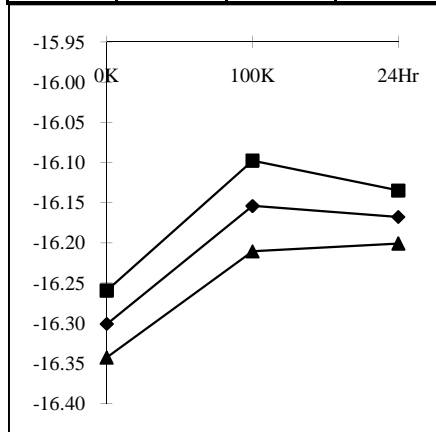
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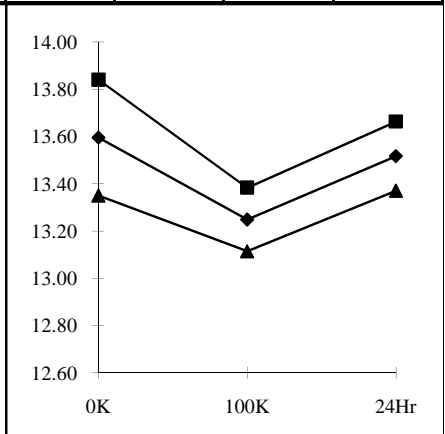
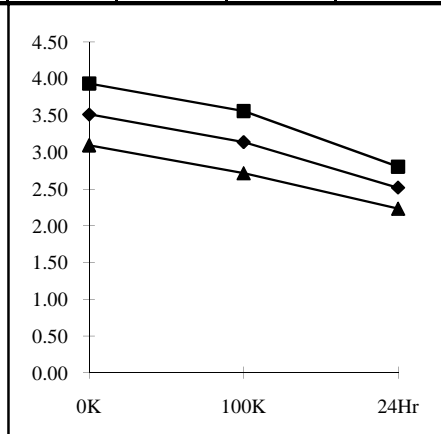
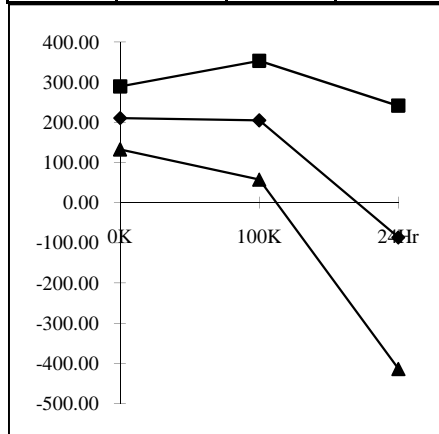
1.0 IQ+ @ VCC=+-15V			2.0 IQ- @ VCC=+-15V			3.0 VOUT+ @ VCC=+-18V					
mA	mA	mA	mA	mA	mA	V	V	V			
SN	0K	100K	24Hr	SN	0K	100K	24Hr	SN	0K	100K	24Hr
48	5.95	5.96	5.93	48	-5.95	-5.94	-5.94	48	16.98	16.93	16.98
1649	6.08	2.96	5.91	1649	-6.08	-2.97	-5.92	1649	16.98	17.20	16.83
1657	6.00	3.00	5.82	1657	-6.00	-3.01	-5.83	1657	16.99	17.16	16.70
1659	6.07	2.99	5.91	1659	-6.07	-3.01	-5.92	1659	16.71	17.22	16.84
1660	5.97	3.16	5.81	1660	-5.97	-3.16	-5.82	1660	16.99	17.17	16.83
min	5.97	2.96	5.81	min	-6.08	-3.16	-5.92	min	16.71	17.16	16.70
max	6.08	3.16	5.91	max	-5.97	-2.97	-5.82	max	16.99	17.22	16.84
stdev	0.05	0.09	0.05	stdev	0.05	0.08	0.05	stdev	0.14	0.03	0.07
average	6.03	3.03	5.87	average	-6.03	-3.04	-5.87	average	16.92	17.19	16.80
+3S	6.18	3.29	6.03	+3S	-5.87	-2.79	-5.71	+3S	17.34	17.27	17.00
-3S	5.88	2.77	5.70	-3S	-6.19	-3.29	-6.04	-3S	16.50	17.10	16.60



4.0 VOUT- @ VCC=+-18V			5.0 VIO			6.0 IIB+					
V	V	mV	mV	nA	nA	nA	nA	nA			
SN	0K	100K	24Hr	SN	0K	100K	24Hr	SN	0K	100K	24Hr
48	-16.29	-16.29	-16.29	48	-0.06	-0.07	-0.07	48	185.40	185.81	181.88
1649	-16.28	-16.14	-16.16	1649	-0.01	3.86	-0.07	1649	-10.02	-5000.00	50.19
1657	-16.31	-16.15	-16.17	1657	-0.02	3.43	-0.04	1657	16.24	-5500.00	-56.39
1659	-16.32	-16.18	-16.18	1659	0.00	4.11	-0.05	1659	5.87	-5500.00	-30.48
1660	-16.30	-16.15	-16.16	1660	0.00	1.93	-0.03	1660	-10.17	-4000.00	-28.94
min	-16.32	-16.18	-16.18	min	-0.02	1.93	-0.07	min	-10.17	-5500.00	-56.39
max	-16.28	-16.14	-16.16	max	0.00	4.11	-0.03	max	16.24	-4000.00	50.19
stdev	0.01	0.02	0.01	stdev	0.01	0.98	0.02	stdev	12.92	707.11	46.15
average	-16.30	-16.15	-16.17	average	-0.01	3.33	-0.05	average	0.48	-5000.00	-16.40
+3S	-16.26	-16.10	-16.13	+3S	0.02	6.27	0.00	+3S	39.26	-2878.68	122.03
-3S	-16.34	-16.21	-16.20	-3S	-0.03	0.39	-0.09	-3S	-38.29	-7121.32	-154.84



7.0 IIB-			nA			8.0 (TZ) Z-GAIN			9.0 VOUT1+ @ VCC=+15V			V
SN	0K	100K	24Hr	SN	0K	100K	24Hr	SN	0K	100K	24Hr	MO
48	-161.04	-158.40	-162.78	48	2.99	2.98	2.98	48	13.65	13.55	13.64	
1649	206.08	173.15	-178.69	1649	3.32	3.03	2.39	1649	13.63	13.24	13.54	
1657	247.84	153.39	51.90	1657	3.51	3.09	2.52	1657	13.63	13.20	13.45	
1659	186.53	252.39	-168.62	1659	3.62	3.35	2.61	1659	13.47	13.25	13.52	
1660	203.09	241.77	-49.87	1660	3.62	3.08	2.55	1660	13.65	13.31	13.56	
min	186.53	153.39	-178.69	min	3.32	3.03	2.39	min	13.47	13.20	13.45	
max	247.84	252.39	51.90	max	3.62	3.35	2.61	max	13.65	13.31	13.56	
stdev	26.10	49.25	109.15	stdev	0.14	0.14	0.10	stdev	0.08	0.04	0.05	
average	210.88	205.17	-86.32	average	3.52	3.14	2.52	average	13.60	13.25	13.52	
+3S	289.17	352.92	241.12	+3S	3.93	3.56	2.80	+3S	13.84	13.38	13.66	
-3S	132.60	57.42	-413.77	-3S	3.10	2.71	2.23	-3S	13.35	13.11	13.37	



10.0 VOUT1- @ VCC=+15V			V
SN	0K	100K	24Hr
48	-12.96	-12.94	-12.95
1649	-13.07	-12.59	-12.91
1657	-13.05	-12.55	-12.84
1659	-13.06	-12.55	-12.85
1660	-13.08	-12.60	-12.87
min	-13.08	-12.60	-12.91
max	-13.05	-12.55	-12.84
stdev	0.01	0.02	0.03
average	-13.07	-12.57	-12.87
+3S	-13.02	-12.50	-12.77
-3S	-13.11	-12.64	-12.97

