



5/9/2009

**RELIABILITY MONITOR REPORT
FOR**

San Antonio 0.8 μ m Silicon Gate CMOS w/memory

MAXIM Integrated Products

**120 San Gabriel Dr.
Sunnyvale, CA 94086**

**This Report was prepared by
Maxim Reliability Engineering**

Summary:

The data in the tables that follow was generated as the result of an on-going Process Reliability Monitor. The specific products in this process monitor are:

MAX16046ETN+	MAX1781ETM+	MAX1781ETM+	MAX1782ETM	MAX1782ETM+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 1786 FITS: 63.9

The parameters used to calculate this failure rate are as follows:

Cf: 60% Ea: 0.7 Tu: 25 °C

The reliability data follows and in this section is the detailed reliability data by stress. The reliability data section includes the latest data available. This report covers data between 1/1/2008 and 12/31/2008.

Process Information:

Process Description: San Antonio 0.8µm Silicon Gate CMOS w/memory

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0741	MAX16046ETN+	135C	192 HRS	48	0	TFDZBQ001FQ
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0737	MAX1781ETM+	150C	1000 HRS	80	0	TML5AA0J4A
STORAGE LIFE	0742	MAX1781ETM+	150C	1000 HRS	80	0	TML5A30L2B
STORAGE LIFE	0816	MAX1782ETM+	150C	500 HRS	80	0	TML6AA5R9A
STORAGE LIFE	0816	MAX1782ETM+	150C	1000 HRS	80	0	TML6AA3R9A
STORAGE LIFE	0816	MAX1782ETM+	150C	500 HRS	80	0	TML6AA5R7A
STORAGE LIFE	0816	MAX1782ETM+	150C	1000 HRS	80	0	TML6AA3R7A
STORAGE LIFE	0816	MAX1782ETM+	150C	1000 HRS	77	0	TML6AA5R8A
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0726	MAX1781ETM+C6D	-65C TO 150C	788 CYS	989	0	TML5C6101A#
TEMP CYCLE, 5' RAMP, 10' DWELL	0726	MAX1781ETM+	-65C TO 150C	1000 CYS	987	0	TML5C6101A
TEMP CYCLE, 5' RAMP, 10' DWELL	0742	MAX1781ETM+	-65C TO 150C	1000 CYS	80	0	TML5A30L2B
TEMP CYCLE, 5' RAMP, 10' DWELL	0743	MAX1781ETM+	-65C TO 150C	788 CYS	994	0	TML5A42L2J#
TEMP CYCLE, 5' RAMP, 10' DWELL	0743	MAX1781ETM+	-65C TO 150C	1000 CYS	943	0	TML5A44L2J

TEMP CYCLE, 5' RAMP, 10' DWELL	0746	MAX1781ETM+	-65C TO 150C	788	CYS	992	0	TML5A44L2A#
TEMP CYCLE, 5' RAMP, 10' DWELL	0746	MAX1782ETM+	-65C TO 150C	500	CYS	798	0	TML6AA4N9A#
TEMP CYCLE, 5' RAMP, 10' DWELL	0809	MAX1781ETM+	-65C TO 150C	1000	CYS	77	0	TML5C4013D
TEMP CYCLE, 5' RAMP, 10' DWELL	0809	MAX1781ETM+	-65C TO 150C	1000	CYS	77	0	TML5C4013E
TEMP CYCLE, 5' RAMP, 10' DWELL	0809	MAX1781ETM+	-65C TO 150C	1000	CYS	76	0	TML5C4013F
TEMP CYCLE, 5' RAMP, 10' DWELL	0816	MAX1782ETM+	-65C TO 150C	1000	CYS	80	0	TML6AA3R9A
TEMP CYCLE, 5' RAMP, 10' DWELL	0816	MAX1782ETM+	-65C TO 150C	1000	CYS	80	0	TML6AA5R7A
TEMP CYCLE, 5' RAMP, 10' DWELL	0816	MAX1782ETM	-65C TO 150C	1000	CYS	77	0	TML6AA5R8A
							Total:	0

FAILURE RATE:

MTTF (YRS): 1786

FITS: 63.9