



10/8/10

**RELIABILITY MONITOR REPORT
FOR**

San Antonio 0.8 μ m Silicon Gate CMOS (B8)

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:

DS8113	MAX13433EESD	MAX1790EUA+	MAX6735AKAL	MAX9590ETU+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 9400 QUANTITY: 80 FAILS: 0 FITS: 12.1

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 10/1/2009 and 9/30/2010 .

Process Information:

Process Description: San Antonio 0.8µm Silicon Gate CMOS (B8)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0940	DS8113	125C, 6.0 VOLTS	1000 HRS	80	0	FM948234AA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0737	MAX1790EUA+	150C	500 HRS	77	0	T8VAHA151Q2
STORAGE LIFE	0737	MAX1790EUA+	150C	500 HRS	70	0	T8VAHA151Q3
STORAGE LIFE	0835	MAX13433EESD+	150C	500 HRS	45	0	TNUWBQ001KA
STORAGE LIFE	0940	DS8113	150C	1000 HRS	80	0	FM948234AA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0737	MAX1790EUA+	-65C TO 150C	500 CYS	26	0	T8VAHA151Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	0737	MAX1790EUA+	-65C TO 150C	500 CYS	24	0	T8VAHA151Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	0737	MAX1790EUA+	-65C TO 150C	500 CYS	76	0	T8VAHA151Q3
TEMP CYCLE, 5' RAMP, 10' DWELL	0835	MAX13433EESD+	-65C TO 150C	500 CYS	80	0	TNUWBQ001KA
TEMP CYCLE, 5' RAMP, 10' DWELL	0940	DS8113	-55C TO 125C	1000 CYS	80	0	FM948234AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1027	MAX9590ETU+	-65C TO 150C	200 CYS	63	0	TP60B2028D

TEMP CYCLE, 5' RAMP, 1027 10' DWELL	MAX9590ETU+	-65C TO 150C	200	CYS	17	0	TP60B2028D
TEMP CYCLE, 5' RAMP, 1027 10' DWELL	MAX9590ETU+	-65C TO 150C	200	CYS	100	0	TP60B2034C
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	0830	MAX6735AKALTD3+T	85 C/85% R.H.	1000 HRS	33	0	T7I7DA006A
Total:						0	
FAILURE RATE:	MTTF (YRS): 9400		QUANTITY: 80		FAILS: 0		FITS: 12.1