



7/19/2012

**RELIABILITY MONITOR REPORT
FOR**

San Antonio Silicon Gate 0.8 μ m 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:

MAX13085EESA	MAX13485EESA	MAX1668MEE+	MAX34406
--------------	--------------	-------------	----------

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 31712 QUANTITY: 248 FAILS: 0 FITS: 3.6

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 7/1/2011 and 6/30/2012 .

Process Information:

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

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1112	MAX1668MEE+	135C	1000 HRS	40	0	T23AM30721X
HIGH TEMP OP LIFE	1112	MAX1668MEE+	135C	1000 HRS	48	0	T23AM3072I
HIGH TEMP OP LIFE	1118	MAX34406	125C, 5.0V (PSA) & 20.0V (PSD)	192 HRS	70	0	ZJ168552AC-NPI
HIGH TEMP OP LIFE	1136	MAX13085EESA+	135C	500 HRS	45	0	TR0ZAA028Q2
HIGH TEMP OP LIFE	1136	MAX13085EESA+	135C	1000 HRS	45	0	TR0ZAA028Q1
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1136	MAX13085EESA+	150C	1000 HRS	77	0	TR0ZAA028Q1
STORAGE LIFE	1136	MAX13085EESA+	150C	1000 HRS	77	0	TR0ZAA028Q2
STORAGE LIFE	1136	MAX13485EESA+	150C	1000 HRS	77	0	JY32EA030Q1
STORAGE LIFE	1136	MAX13485EESA+	150C	1000 HRS	77	0	JY32EA030Q2
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1136	MAX13085EESA+	-65C TO 150C	1000 CYS	77	0	TR0ZAA028Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1136	MAX13085EESA+	-65C TO 150C	1000 CYS	77	0	TR0ZAA028Q2
Total:						0	

FAILURE RATE: MTTF (YRS): 31712 QUANTITY: 248 FAILS: 0 FITS: 3.6