



4/13/2009

RELIABILITY MONITOR REPORT  
FOR

**TSMC 0.35 $\mu$ m Silicon Gate CMOS**

**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:

MAX1446EHJ+	MAX4751EGE+	MAX7034AUI+	MAX9257GTL+
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 6437 FITS: 17.7**

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 10/1/2007 and 9/30/2008 .

**Process Information:**

Process Description: TSMC 0.35µm Silicon Gate CMOS

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0742	MAX9257GTL+	135C	192 HRS	55	0	QGFZCQ001EQ
HIGH TEMP OP LIFE	0804	MAX7034AUI+	135C	500 HRS	48	0	QINZAQ003D#
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0804	MAX7034AUI+	150C	1000 HRS	80	0	QINZAQ003D#
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0804	MAX7034AUI+	-65C TO 150C	500 CYS	80	0	QINZAQ003D#
TEMP CYCLE, 5' RAMP, 10' DWELL	0818	MAX4751EGE+	-65C TO 150C	497 CYS	77	0	Q7T0CA038AD
TEMP CYCLE, 5' RAMP, 10' DWELL	0818	MAX4751EGE+	-65C TO 150C	497 CYS	77	0	Q7T0CA038AE
TEMP CYCLE, 5' RAMP, 10' DWELL	0818	MAX4751EGE+	-65C TO 150C	497 CYS	77	0	Q7T0CA038AF
<b>Total:</b>						<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	0804	MAX7034AUI+	130C, 85% R.H.	96 HRS	33	0	QIN1AQ003D
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 6437 FITS: 17.7**