



10/8/10

**RELIABILITY MONITOR REPORT  
FOR**

**MFN 3 $\mu$ m Silicon Gate CMOS (B3)**

**MAXIM Integrated Products**

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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:

MAX1745AUB+	MAX3172EAI+	MAX3222EEUP+	MAX5941AESE
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 30618      QUANTITY: 238      FAILS: 0      FITS: 3.7**

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

**Process Information:**

Process Description:      MFN 3µm Silicon Gate CMOS (B3)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1019	MAX3172EAI+	135C	1000 HRS	78	0	J73AF2004B
HIGH TEMP OP LIFE	1020	MAX1745AUB+	135C	500 HRS	80	0	J3KBH2038CA
HIGH TEMP OP LIFE	1023	MAX3222EEUP+	135C	1000 HRS	80	0	JO3AM2550B
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1019	MAX3172EAI+	150C	1000 HRS	80	0	J73AF2004B
STORAGE LIFE	1020	MAX1745AUB+	150C	1000 HRS	79	0	J3KBH2038CA
STORAGE LIFE	1023	MAX3222EEUP+	150C	1000 HRS	80	0	JO3AM2550B
<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	0933	MAX5941AESE	-65C TO 150C	500 CYS	77	0	N0S0DBCQ1
TEMP CYCLE, 5' RAMP, 10' DWELL	0933	MAX5941AESE	-65C TO 150C	1000 CYS	77	0	N0S0DBCQ2
TEMP CYCLE, 5' RAMP, 10' DWELL	0933	MAX5941AESE	-65C TO 150C	1000 CYS	77	0	N0S0DBCQ3
TEMP CYCLE, 5' RAMP, 10' DWELL	1019	MAX3172EAI+	-65C TO 150C	500 CYS	80	0	J73AF2004B
TEMP CYCLE, 5' RAMP, 10' DWELL	1020	MAX1745AUB+	-65C TO 150C	200 CYS	80	0	J3KBH2038CA
TEMP CYCLE, 5' RAMP, 10' DWELL	1023	MAX3222EEUP+	-65C TO 150C	500 CYS	80	0	JO3AM2550B

<b>FAILURE RATE:</b>	<b>MTTF (YRS): 30618</b>	<b>QUANTITY: 238</b>	<b>Total:</b>	<b>0</b>
			<b>FAILS: 0</b>	<b>FITS: 3.7</b>