

4/23/2015



**RELIABILITY MONITOR REPORT  
FOR**

**San Antonio 0.8 $\mu$ m Silicon Gate (B8)**

**MAXIM INTEGRATED**

**160 RIO ROBLES  
SAN JOSE, CA 95134**

**This Report was prepared by  
MAXIM INTEGRATED 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:

MAX1951ESA+	MAX9730ETI+	MAX9788ETI+
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 26354      QUANTITY: 176      FAILS: 0      FITS: 4.3**

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 4/1/2014 and 3/31/2015 .

**Process Information:**

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

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1422	MAX9788ETI+	135°C	1000 HRS	48	0	TALZBA066A
HIGH TEMP OP LIFE	1436	MAX9730ETI+	135°C	1000 HRS	48	0	TALZBA067D
HIGH TEMP OP LIFE	1439	MAX1951ESA+	135°C	500 HRS	80	0	TF00H2110C
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1422	MAX9788ETI+	150°C	1000 HRS	80	0	TALZBA066A
STORAGE LIFE	1436	MAX9730ETI+	150°C	1000 HRS	80	0	TALZBA067D
<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	1422	MAX9788ETI+	-65C TO +150C (Condition C)	500 CYS	80	0	TALZBA066A
TEMP CYCLE, 5' RAMP, 10' DWELL	1436	MAX9730ETI+	-65C TO +150C (Condition C)	500 CYS	80	0	TALZBA067D
<b>Total:</b>						<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1422	MAX9788ETI+	130C, 85% R.H.	100 HRS	80	0	TALZBA066A
BIASED MOISTURE	1436	MAX9730ETI+	130C, 85% R.H.	100 HRS	80	0	TALZBA067D

<b>FAILURE RATE:</b>	<b>MTTF (YRS): 26354</b>	<b>QUANTITY: 176</b>	<b>Total:</b>	<b>0</b>
			<b>FAILS: 0</b>	<b>FITS: 4.3</b>