

10/23/2014



**RELIABILITY MONITOR REPORT  
FOR**

**San Antonio 0.6μm Silicon Gate (EC6)**

**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:

DS12R887	DS1977
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 138            QUANTITY: 44            FAILS: 0            FITS: 827**

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 10/1/2013 and 9/30/2014 .

**Process Information:**

Process Description:            San Antonio 0.6µm Silicon Gate (EC6)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1350	DS12R887	65 C, 3.3 VOLTS	1000 HRS	44	0	FM496580AB
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1423	DS1977	85°C	1000 HRS	77	0	MG396978AAB-ENG
STORAGE LIFE	1423	DS1977	85°C	1000 HRS	77	0	MG396979AAB-ENG
STORAGE LIFE	1423	DS1977	85°C	1000 HRS	77	0	MG396980AAB-ENG
<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	1423	DS1977	-40C TO +85C (Condition N)	1000 CYS	77	0	MG396978AAB-ENG
TEMP CYCLE, 5' RAMP, 10' DWELL	1423	DS1977	-40C TO +85C (Condition N)	1000 CYS	77	0	MG396979AAB-ENG
TEMP CYCLE, 5' RAMP, 10' DWELL	1423	DS1977	-40C TO +85C (Condition N)	1000 CYS	77	0	MG396980AAB-ENG
<b>Total:</b>						<b>0</b>	

**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1423	DS1977	85 C/85% R.H.	1000 HRS	77	0	MG396978AAB-ENG
MOISTURE SOAK	1423	DS1977	85 C/85% R.H.	1000 HRS	77	0	MG396979AAB-ENG
MOISTURE SOAK	1423	DS1977	85 C/85% R.H.	1000 HRS	77	0	MG396980AAB-ENG

<b>FAILURE RATE:</b>	<b>MTTF (YRS): 138</b>	<b>QUANTITY: 44</b>	<b>Total:</b>	<b>0</b>
			<b>FAILS: 0</b>	<b>FITS: 827.0</b>