

4/23/2015



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

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
Total:						0	

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
Total:						0	

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
Total:						0	

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

FAILURE RATE:	MTTF (YRS): 138	QUANTITY: 44	Total:	0
			FAILS: 0	FITS: 827.0