

4/16/2014



**RELIABILITY MONITOR REPORT
FOR**

San Antonio 0.8 μ m Silicon Gate CMOS (EB8)

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:

MAX1781ETM+

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 53581 QUANTITY: 397 FAILS: 0 FITS: 2.1

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 4/1/2013 and 3/31/2014 .

Process Information:

Process Description: San Antonio 0.8µm Silicon Gate CMOS (EB8)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1326	MAX1781ETM+	135°C	1000 HRS	79	0	TML5AA0Z8QA
HIGH TEMP OP LIFE	1326	MAX1781ETM+	135°C	500 HRS	80	0	TML5AA0Z8QB
HIGH TEMP OP LIFE	1326	MAX1781ETM+	135°C	1000 HRS	79	0	TML5AA0Z8QB
HIGH TEMP OP LIFE	1326	MAX1781ETM+	135°C	500 HRS	80	0	TML5AA0Z8QC
HIGH TEMP OP LIFE	1326	MAX1781ETM+	135°C	1000 HRS	79	0	TML5AA0Z8QC
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1326	MAX1781ETM+	150°C	1000 HRS	80	0	TML5AA0Z8QA
STORAGE LIFE	1326	MAX1781ETM+	150°C	1000 HRS	80	0	TML5AA0Z8QB
STORAGE LIFE	1326	MAX1781ETM+	150°C	1000 HRS	80	1	TML5AA0Z8QC
Total:						1	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1326	MAX1781ETM+	-65C TO 150C	1000 CYS	76	0	TML5AA0Z8QA
TEMP CYCLE, 5' RAMP, 10' DWELL	1326	MAX1781ETM+	-65C TO 150C	1000 CYS	77	1	TML5AA0Z8QA
TEMP CYCLE, 5' RAMP, 10' DWELL	1326	MAX1781ETM+	-65C TO 150C	1000 CYS	80	1	TML5AA0Z8QB
TEMP CYCLE, 5' RAMP, 10' DWELL	1326	MAX1781ETM+	-65C TO 150C	1000 CYS	76	0	TML5AA0Z8QB
TEMP CYCLE, 5' RAMP, 10' DWELL	1326	MAX1781ETM+	-65C TO 150C	1000 CYS	80	1	TML5AA0Z8QC

Total: 3

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1326	MAX1781ETM+	130C, 85% R.H.	100 HRS	35	0	TML5AA0Z8QC

Total: 0

FAILURE RATE: MTTF (YRS): 53581 QUANTITY: 397 FAILS: 0 FITS: 2.1