

8/1/2019



**RELIABILITY MONITOR REPORT
FOR**

San Antonio 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:

MAX1564ETE+	MAX16047ETN+	MAX16047ETN+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 15503 QUANTITY: 80 FAILS: 0 FITS: 7.4

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 4/1/2019 and 8/1/2019 .

Process Information:

Process Description: San Antonio EB8

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1833	MAX16047ETN+	125°C	1000 HRS	48	0	TFDZCA213BA
HIGH TEMP OP LIFE	1833	MAX16047ETN+	125°C	1000 HRS	32	0	TFDZCA213BA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1821	MAX16047ETN+	150°C	1000 HRS	80	0	TFDZCA217A
STORAGE LIFE	1833	MAX16047ETN+	150°C	1000 HRS	80	0	TFDZCA213BA
STORAGE LIFE	1845	MAX1564ETE+	150°C	1000 HRS	80	0	TUH0BA014CA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1821	MAX16047ETN+	-65C TO +150C (Condition C)	1000 CYS	80	0	TFDZCA217A
TEMP CYCLE, 5' RAMP, 10' DWELL	1833	MAX16047ETN+	-65C TO +150C (Condition C)	1000 CYS	80	0	TFDZCA213BA
TEMP CYCLE, 5' RAMP, 10' DWELL	1845	MAX1564ETE+	-65C TO +150C (Condition C)	1000 CYS	80	0	TUH0BA014CA
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1821	MAX16047ETN+	130C, 85% R.H.	96 HRS	78	0	TFDZCA217A

BIASED MOISTURE	1833	MAX16047ETN+	130C, 85% R.H.	96	HRS	38	0	TFDZCA213BA
BIASED MOISTURE	1845	MAX1564ETE+	130C, 85% R.H.	96	HRS	79	0	TUH0BA014CA
					Total:		0	
FAILURE RATE:		MTTF (YRS): 15503	QUANTITY: 80		FAILS: 0		FITS: 7.4	