

8/1/2019



**RELIABILITY MONITOR REPORT
FOR**

San Antonio E35

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:

MAX5054AATA/	MAX5128ELA+T	MAX5423ETA+	MAX5487ETE+T
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 30424 QUANTITY: 157 FAILS: 0 FITS: 3.8

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 E35

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1805	MAX5054AATA/V+T	125°C	1000 HRS	48	0	TJC0EA159DF
HIGH TEMP OP LIFE	1805	MAX5054AATA/V+T	125°C	1000 HRS	29	0	TJC0EA159DF
HIGH TEMP OP LIFE	1842	MAX5487ETE+T	125°C	1000 HRS	80	0	TSE0EA079DA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1806	MAX5423ETA+	150°C	1000 HRS	30	0	TOE1FA008CA
STORAGE LIFE	1824	MAX5128ELA+T	150°C	1000 HRS	80	0	TAKQ8A036JA
STORAGE LIFE	1842	MAX5487ETE+T	150°C	1000 HRS	80	0	TSE0EA079DA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1805	MAX5054AATA/V+T	-65C TO +150C (Condition C)	1000 CYS	80	0	TJC0EA159DF
TEMP CYCLE, 5' RAMP, 10' DWELL	1824	MAX5128ELA+T	-65C TO +150C (Condition C)	1000 CYS	80	0	TAKQ8A036JA
TEMP CYCLE, 5' RAMP, 10' DWELL	1842	MAX5487ETE+T	-65C TO +150C (Condition C)	1000 CYS	80	0	TSE0EA079DA
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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BIASED MOISTURE	1824	MAX5128ELA+T	130C, 85% R.H. 96	HRS	80	0	TAKQ8A036JA
BIASED MOISTURE	1842	MAX5487ETE+T	130C, 85% R.H. 96	HRS	80	0	TSE0EA079DA
				Total:		0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1842	MAX5487ETE+T	130C, 85% R.H. 96	HRS	80	0	TSE0EA079DA
				Total:		0	
FAILURE RATE:	MTTF (YRS): 30424		QUANTITY: 157		FAILS: 0	FITS: 3.8	