

1/24/2019



**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/ MAX98306ETD+	MAX5054AATA/	MAX5128ELA+T	MAX5423ETA+	MAX5479ETE+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 54453    QUANTITY: 281    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 10/1/2018 and 12/31/2018.

**Process Information:**

Process Description:            San Antonio E35

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1725	MAX5479ETE+	135°C	1000 HRS	48	0	TAGP5A053EA
HIGH TEMP OP LIFE	1725	MAX5479ETE+	135°C	1000 HRS	32	0	TAGP5A053EA
HIGH TEMP OP LIFE	1745	MAX98306ETD+T	135°C	1000 HRS	45	0	TJC1EA165AA
HIGH TEMP OP LIFE	1745	MAX5054AATA/V+	135°C	1000 HRS	31	0	TJC1EA165AA
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	1806	MAX5423ETA+	135°C	1000 HRS	48	0	TOE1FA008CA
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1745	MAX98306ETD+T	150°C	1000 HRS	80	0	TJC1EA165AA
STORAGE LIFE	1805	MAX5054AATA/V+T	150°C	500 HRS	80	0	TJC0EA159DF
STORAGE LIFE	1806	MAX5423ETA+	150°C	1000 HRS	53	0	TOE1FA008CA
STORAGE LIFE	1806	MAX5423ETA+	150°C	1000 HRS	30	0	TOE1FA008CA
STORAGE LIFE	1824	MAX5128ELA+T	150°C	1000 HRS	80	0	TAKQ8A036JA
<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	1745	MAX98306ETD+T	-65C TO +150C (Condition C)	500 CYS	80	0	TJC1EA165AA

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	1806	MAX5423ETA+	-65C TO +150C (Condition C)	1000	CYS	78	0	TOE1FA008CA
TEMP CYCLE, 5' RAMP, 10' DWELL	1824	MAX5128ELA+T	-65C TO +150C (Condition C)	500	CYS	80	0	TAKQ8A036JA
<b>Total:</b>							<b>0</b>	

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**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1745	MAX98306ETD+T	85 C/85% R.H.	96	HRS	80	0	TJC1EA165AA
BIASED MOISTURE	1824	MAX5128ELA+T	130C, 85% R.H.	96	HRS	79	0	TAKQ8A036JA
<b>Total:</b>						<b>0</b>		

**FAILURE RATE:      MTTF (YRS): 54453      QUANTITY: 281      FAILS: 0      FITS: 2.1**