

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

San Antonio B8

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:

MAX16051ETI+	MAX16053AUT+	MAX5072ETJ+	MAX9027EWT+	MAX9028EBT+T
MAX9814ETD+				

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 122858 QUANTITY: 589 FAILS: 0 FITS: 0.9

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 7/1/2017 and 9/30/2017 .

Process Information:

Process Description: San Antonio B8

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1126	MAX5072ETJ+	135°C	1000 HRS	32	0	DRJ0DA013MX
HIGH TEMP OP LIFE	1229	MAX16053AUT+	135°C	1000 HRS	90	0	TLKYDA006C#
HIGH TEMP OP LIFE	1328	MAX16053AUT+	135°C	1000 HRS	89	0	TLKYDA008G#
HIGH TEMP OP LIFE	1426	MAX16053AUT+	135°C	1000 HRS	90	0	TLKYDA009B#
HIGH TEMP OP LIFE	1630	MAX9814ETD+	135°C	1000 HRS	48	0	TAPZDA074DE
HIGH TEMP OP LIFE	1630	MAX9814ETD+	135°C	1000 HRS	34	0	TAPZDA074DE
HIGH TEMP OP LIFE	1636	MAX9027EWT+	135°C	1000 HRS	80	0	TOY2DA148AA
HIGH TEMP OP LIFE	1701	MAX9814ETD+	135°C	1000 HRS	47	0	TAPZDA077DA
HIGH TEMP OP LIFE	1701	MAX9814ETD+	135°C	1000 HRS	33	0	TAPZDA077DA
HIGH TEMP OP LIFE	1728	MAX9814ETD+	135°C	1000 HRS	46	0	TAPZDA083BD
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1229	MAX16053AUT+	150°C	1000 HRS	50	0	TLKYDA006C#
STORAGE LIFE	1328	MAX16053AUT+	150°C	1000 HRS	50	0	TLKYDA008G#
STORAGE LIFE	1426	MAX16053AUT+	150°C	1000 HRS	47	0	TLKYDA009B#
STORAGE LIFE	1630	MAX9814ETD+	150°C	1000 HRS	80	0	TAPZDA074DE
STORAGE LIFE	1636	MAX9027EWT+	150°C	1000 HRS	50	0	TOY2DA148AA
STORAGE LIFE	1701	MAX9814ETD+	150°C	1000 HRS	80	0	TAPZDA077DA
STORAGE LIFE	1712	MAX16051ETI+	150°C	1000 HRS	80	0	TIFYBA011BA

Total: 0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 15' RAMP, 15' DWELL	1614	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA139AC
TEMP CYCLE, 15' RAMP, 15' DWELL	1615	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA140AB
TEMP CYCLE, 15' RAMP, 15' DWELL	1619	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA141AF
TEMP CYCLE, 15' RAMP, 15' DWELL	1621	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA145AH
TEMP CYCLE, 15' RAMP, 15' DWELL	1622	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA147AH
TEMP CYCLE, 15' RAMP, 15' DWELL	1627	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA149A#
TEMP CYCLE, 15' RAMP, 15' DWELL	1629	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA150A#
TEMP CYCLE, 5' RAMP, 10' DWELL	1630	MAX9814ETD+	-65C TO +150C (Condition C)	1000	CYS	80	0 TAPZDA074DE
TEMP CYCLE, 15' RAMP, 15' DWELL	1630	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA152A#
TEMP CYCLE, 15' RAMP, 15' DWELL	1630	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA151C#
TEMP CYCLE, 15' RAMP, 15' DWELL	1631	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA154A#
TEMP CYCLE, 15' RAMP, 15' DWELL	1631	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA153A#
TEMP CYCLE, 15' RAMP, 15' DWELL	1634	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA155DC
TEMP CYCLE, 15' RAMP, 15' DWELL	1637	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA156AC
TEMP CYCLE, 15' RAMP, 15' DWELL	1637	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA143AI
TEMP CYCLE, 15' RAMP, 15' DWELL	1641	MAX9028EBT+TCHE	-40C TO +125C (Condition G)	100	CYS	80	0 TOY3DA165AC
TEMP CYCLE, 5' RAMP, 10' DWELL	1701	MAX9814ETD+	-65C TO +150C (Condition C)	1000	CYS	80	0 TAPZDA077DA

TEMP CYCLE, 5' RAMP, 10' DWELL	1712	MAX16051ETI+	-65C TO +150C (Condition C)	1000	CYS	80	0	TIFYBA011BA
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1126	MAX5072ETJ+	130C, 85%	100	HRS	34	0 DRJ0DA013MX	
BIASED MOISTURE	1249	MAX16053AUT+	130C, 85%	100	HRS	80	0 TLKYDA008E#	
BIASED MOISTURE	1328	MAX16053AUT+	130C, 85%	100	HRS	80	0 TLKYDA008G#	
BIASED MOISTURE	1328	MAX16053AUT+	130C, 85%	100	HRS	80	0 TLKYDA008GA	
BIASED MOISTURE	1426	MAX16053AUT+	130C, 85%	100	HRS	80	0 TLKYDA009B#	
BIASED MOISTURE	1544	MAX16053AUT+	130C, 85%	100	HRS	79	0 TLKYDA015E#	
BIASED MOISTURE	1544	MAX16053AUT+	130C, 85%	100	HRS	80	0 TLKYDA015E3	
BIASED MOISTURE	1630	MAX9814ETD+	130C, 85%	96	HRS	79	0 TAPZDA074DE	
BIASED MOISTURE	1701	MAX9814ETD+	130C, 85%	96	HRS	80	0 TAPZDA077DA	
BIASED MOISTURE	1712	MAX16051ETI+	130C, 85%	96	HRS	46	0 TIFYBA011BA	
BIASED MOISTURE	1712	MAX16051ETI+	130C, 85%	96	HRS	34	0 TIFYBA011BA	
Total:							0	

FAILURE RATE: MTF (YRS): 122858 QUANTITY: 589 FAILS: 0 FITS: 0.9