

RELIABILITY MONITOR REPORT FOR

San Antonio 0.4µm Silicon Gate CMOS (S4)

MAXIM Integrated Products

120 San Gabriel Dr. Sunnyvale, CA 94086

This Report was prepared by Maxim 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:

MAX31C80 MAX3420EECJ+ MAX8516EUB+ MAX9934FAUA

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 31534 QUANTITY: 239 FAILS: 0 FITS: 3.6

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 10/1/2009 and 9/30/2010.

Process Information:

Process Description: San Antonio 0.4µm Silicon Gate CMOS (S4)

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OPERATING LIFE								
DESCRIPTION		TEST VEHICLE	CONDITION	READ	POINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0934	MAX9934FAUA+	135C	281	HRS	50	0	TRBYCQ002OQ
HIGH TEMP OP LIFE	1003	MAX31C80	125C, 3.6 VOLTS	192	HRS	45	0	WJ051709BB-NPI
HIGH TEMP OP LIFE	1004	MAX8516EUB+	135C	1000	HRS	48	0	TMT0HA045Q1
HIGH TEMP OP LIFE	1004	MAX8516EUB+	135C	1000	HRS	48	0	TMT0HA045Q2
HIGH TEMP OP LIFE	1004	MAX8516EUB+	135C	1000	HRS	48	0	TMT0HA045Q3
				Tot		tal:	0	
STORAGE LIFE								
DESCRIPTION		TEST VEHICLE	CONDITION	READ	POINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1004	MAX8516EUB+	150C	1000	HRS	80	0	TMT0HA045Q1
STORAGE LIFE	1004	MAX8516EUB+	150C	1000	HRS	80	0	TMT0HA045Q2
STORAGE LIFE	1004	MAX8516EUB+	150C	1000	HRS	80	0	TMT0HA045Q3
STORAGE LIFE	1026	MAX3420EECJ+	150C	500	HRS	50	0	TXO0EA004F#
					To	tal:	0	
TEMPERATURE CYC	LE							
DESCRIPTION		TEST VEHICLE	CONDITION	READ	POINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1004	MAX8516EUB+	-65C TO 150C	500	CYS	80	0	TMT0HA045Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1004	MAX8516EUB+	-65C TO 150C	1000	CYS	80	0	TMT0HA045Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1004	MAX8516EUB+	-65C TO 150C	500	CYS	80	0	TMT0HA045Q3

TEMP CYCLE, 5' RAMP, 1023 MAX3420EECJ+ -65C TO 150C 500 CYS 80 0 TXO0EA004E#

10' DWELL

Total: 0

FAILS: 0 FITS: 3.6 FAILURE RATE: MTTF (YRS): 31534 QUANTITY: 239