



10/8/10

**RELIABILITY MONITOR REPORT
FOR**

X3 0.4 μ m 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:

MAX9635EDT+	MAX9635EDT+T
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 14921 QUANTITY: 240 FAILS: 0 FITS: 7.7

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: X3 0.4µm Silicon Gate CMOS (S4)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1018	MAX9635EDT+T	135C	500 HRS	80	0	SF0XBU003AJ
HIGH TEMP OP LIFE	1019	MAX9635EDT+T	135C	500 HRS	80	0	SF0XBA004BF
HIGH TEMP OP LIFE	1020	MAX9635EDT+T	135C	1000 HRS	80	0	SF0XBU003BJ
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1018	MAX9635EDT+T	150C	1000 HRS	77	0	SF0XBU003AJ
STORAGE LIFE	1019	MAX9635EDT+	150C	1000 HRS	77	0	SF0XBA004BF
STORAGE LIFE	1020	MAX9635EDT+T	150C	1000 HRS	75	0	SF0XBU003BJ
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1019	MAX9635EDT+T	-65C TO 150C	1000 CYS	77	0	SF0XBA004BF
TEMP CYCLE, 5' RAMP, 10' DWELL	1020	MAX9635EDT+T	-65C TO 150C	1000 CYS	77	0	SF0XBU003BJ
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1020	MAX9635EDT+T	85 C/85% R.H.	1000 HRS	45	0	SF0XBU003BJ
Total:						0	

FAILURE RATE: **MTTF (YRS): 14921** **QUANTITY: 240** **FAILS: 0** **FITS: 7.7**