



10/8/10

**RELIABILITY MONITOR REPORT  
FOR**

**X3 0.6 $\mu$ m Silicon Gate CMOS (B6)**

**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:

MAX5383EZT+T
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 29067    QUANTITY: 150    FAILS: 0    FITS: 3.9**

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

**Process Information:**

Process Description:            X3 0.6µm Silicon Gate CMOS (B6)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1011	MAX5383EZT+T	135C	1000 HRS	50	0	S3JAEA004QA
HIGH TEMP OP LIFE	1011	MAX5383EZT+T	135C	1000 HRS	50	0	S3JAEA004QB
HIGH TEMP OP LIFE	1011	MAX5383EZT+T	135C	1000 HRS	50	0	S3JAEA004QC
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0935	MAX5383EZT+T	150C	1000 HRS	80	0	S3JAEA004Q7
STORAGE LIFE	0935	MAX5383EZT+T	150C	1000 HRS	80	0	S3JAEA004Q8
STORAGE LIFE	0935	MAX5383EZT+T	150C	1000 HRS	75	0	S3JAEA004Q9
STORAGE LIFE	1011	MAX5383EZT+T	150C	1000 HRS	80	0	S3JAEA004QA
STORAGE LIFE	1011	MAX5383EZT+T	150C	1000 HRS	80	0	S3JAEA004QB
STORAGE LIFE	1011	MAX5383EZT+T	150C	1000 HRS	80	0	S3JAEA004QC
<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	0935	MAX5383EZT+T	-65C TO 150C	1000 CYS	80	0	S3JAEA004Q7
TEMP CYCLE, 5' RAMP, 10' DWELL	0935	MAX5383EZT+T	-65C TO 150C	1000 CYS	80	0	S3JAEA004Q8
TEMP CYCLE, 5' RAMP, 10' DWELL	0935	MAX5383EZT+T	-65C TO 150C	1000 CYS	80	0	S3JAEA004Q9
TEMP CYCLE, 5' RAMP, 10' DWELL	1011	MAX5383EZT+T	-65C TO 150C	1000 CYS	80	0	S3JAEA004QA

TEMP CYCLE, 5' RAMP, 1011	MAX5383EZT+T	-65C TO 150C	1000	CYS	80	0	S3JAEA004QB
10' DWELL							
TEMP CYCLE, 5' RAMP, 1011	MAX5383EZT+T	-65C TO 150C	1000	CYS	80	0	S3JAEA004QC
10' DWELL							

**Total:** 0

**FAILURE RATE:**    **MTTF (YRS): 29067**    **QUANTITY: 150**    **FAILS: 0**    **FITS: 3.9**