



1/25/2008

**RELIABILITY MONITOR REPORT
FOR**

SVL 0.4 μ m Silicon Gate CMOS

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:

MAX1510ETB	MAX1510ETB+	MAX4036AAXK	MAX4039EUB	MAX4946ELA+
MAX5678ETJ	MAX5678ETJ+	MAX8611ETM+	MAX8680ETL+	MAX8784ETL+
MAX8790ETP+	MAX9853ETM+	MAXQ7665BAT		

The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 339118** **FITS: 0.3**

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 and

Process Information:

Process Description: SVL 0.4µm Silicon Gate CMOS

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE		MAX8680ETL+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0518	MAX4039EUB	135C, 5.25V	1000 HRS	90	0	
HIGH TEMP OP LIFE	0601	MAX8611ETM+	135C, 5.25V	1000 HRS	48	0	
			135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0608	MAX1510ETB	135C, 5.25V	1000 HRS	46	0	
HIGH TEMP OP LIFE	0611	MAX5678ETJ+	135C, 5.25V	1000 HRS	44	0	
		MAX5678ETJ	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0612	MAX4946ELA+	135C, 5.25V	1000 HRS	47	0	
			135C, 5.25V	1000 HRS	44	0	
HIGH TEMP OP LIFE	0615	MAX4036AAXK+	135C, 5.25V	1000 HRS	51	0	
HIGH TEMP OP LIFE	0617	MAX9853ETM+	135C, 5.25V	1000 HRS	77	0	
			135C, 5.25V	1000 HRS	77	0	
HIGH TEMP OP LIFE	0622	MAX8611ETM+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0633	MAX9853ETM+	135C, 5.25V	1000 HRS	79	0	
HIGH TEMP OP LIFE	0636	MAX9853ETM+	135C, 5.25V	1000 HRS	77	0	
		MAX1510ETB+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0638	MAX8611ETM+	135C, 5.25V	1000 HRS	72	0	
			135C, 5.25V	1000 HRS	72	0	
			135C, 5.25V	1000 HRS	70	0	
HIGH TEMP OP LIFE	0639	MAX8611ETM+	135C, 5.25V	1000 HRS	71	0	
		MAX9853ETM+	135C, 5.25V	1000 HRS	78	0	
HIGH TEMP OP LIFE	0648	MAX8790ETP+	135C, 5.25V	1000 HRS	46	0	

HIGH TEMP OP LIFE	0707	MAX8790ETP+	135C, 5.25V	1000 HRS	45	0
HIGH TEMP OP LIFE	0716	MAX9853ETM+	135C, 5.25V	1000 HRS	78	0
HIGH TEMP OP LIFE	0717	MAXQ7665BATM+	135C, 5.25V	1000 HRS	48	0
			135C, 5.25V	1000 HRS	48	0
HIGH TEMP OP LIFE	0719	MAX8784ETL+	135C, 5.25V	1000 HRS	47	0
		MAX9853ETM+	135C, 5.25V	1000 HRS	79	0
HIGH TEMP OP LIFE	0720	MAX8790ETP+	135C, 5.25V	1000 HRS	76	0
				Total:		0

FAILURE RATE:

MTTF (YRS): 339118

FITS: 0.3