



1/25/2008

**RELIABILITY MONITOR REPORT  
FOR**

**SVL 0.8 $\mu$ 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:

MAX1526ETM+	MAX1558ETB+	MAX1558ETB+T	MAX1566ETL+	MAX1574ETB+
MAX1576ETG+	MAX1607ESA+C	MAX1782ETM+	MAX1790EUA+	MAX1793EUE25
MAX1802EHJ+	MAX1842ETI+	MAX1951ESA	MAX3378EEUD	MAX3535ECWI+
MAX4919BETD	MAX6425UK26+	MAX6613MXK+	MAX6689UP9A+	MAX6749KA+
MAX6969AUG+	MAX8655ETN	MAX8655ETN+		

The calculated failure rate for devices using this process is:

**FAILURE RATE:                      MTTF (YRS): 489105                      FITS: 0.2**

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 .

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**Process Information:**

Process Description:                      SVL 0.8µm Silicon Gate CMOS

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	053	MAX3378EEUD	135C, 5.25V	1000 HRS	44	0	
HIGH TEMP OP LIFE	0523	MAX8655ETN	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0537	MAX3535ECWI+	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0544	MAX1566ETL+	135C, 5.25V	1000 HRS	46	0	
HIGH TEMP OP LIFE	0545	MAX1566ETL+	135C, 5.25V	1000 HRS	46	0	
HIGH TEMP OP LIFE	0548	MAX1793EUE25+	135C, 5.25V	1000 HRS	78	0	
		MAX1802EHJ+	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0602	MAX1574ETB+	135C, 5.25V	1000 HRS	47	0	
HIGH TEMP OP LIFE	0604	MAX1842ETI+	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0606	MAX1782ETM+	135C, 5.25V	1000 HRS	44	0	
HIGH TEMP OP LIFE	0607	MAX1842ETI+	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0608	MAX1790EUA+	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	

HIGH TEMP OP LIFE	0608	MAX1790EUA+	135C, 5.25V	1000 HRS	45	0
HIGH TEMP OP LIFE	0613	MAX1558ETB+T	135C, 5.25V	1000 HRS	45	0
		MAX1558ETB+	135C, 5.25V	1000 HRS	45	0
		MAX1558ETB+T	135C, 5.25V	1000 HRS	45	0
HIGH TEMP OP LIFE	0620	MAX4919BETD+	135C, 5.25V	1000 HRS	48	0
HIGH TEMP OP LIFE	0624	MAX4919BETD+	135C, 5.25V	1000 HRS	41	0
		MAX1566ETL+	135C, 5.25V	1000 HRS	46	0
HIGH TEMP OP LIFE	0627	MAX6425UK26+T	135C, 5.25V	1000 HRS	70	0
HIGH TEMP OP LIFE	0629	MAX6613MXK+	135C, 5.25V	1000 HRS	80	0
HIGH TEMP OP LIFE	0640	MAX1576ETG+	135C, 5.25V	1000 HRS	48	0
HIGH TEMP OP LIFE	0643	MAX1790EUA+	135C, 5.25V	1000 HRS	78	0
HIGH TEMP OP LIFE	0649	MAX1951ESA	135C, 5.25V	1000 HRS	45	0
HIGH TEMP OP LIFE	0701	MAX1790EUA+	135C, 5.25V	1000 HRS	79	0
HIGH TEMP OP LIFE	0704	MAX8655ETN+	135C, 5.25V	1000 HRS	44	0
			135C, 5.25V	1000 HRS	45	0
			135C, 5.25V	1000 HRS	45	0
HIGH TEMP OP LIFE	0705	MAX1558ETB+T	135C, 5.25V	1000 HRS	75	0
		MAX1526ETM+	135C, 5.25V	1000 HRS	46	0
			135C, 5.25V	1000 HRS	44	0
		MAX1558ETB+T	135C, 5.25V	1000 HRS	48	0
		MAX1526ETM+	135C, 5.25V	1000 HRS	45	0
HIGH TEMP OP LIFE	0709	MAX6969AUG+	135C, 5.25V	1000 HRS	48	0
HIGH TEMP OP LIFE	0710	MAX6689UP9A+	135C, 5.25V	1000 HRS	47	0
HIGH TEMP OP LIFE	0713	MAX6749KA+	135C, 5.25V	1000 HRS	48	0
HIGH TEMP OP LIFE	0721	MAX8655ETN+	135C, 5.25V	1000 HRS	45	0
			135C, 5.25V	1000 HRS	44	0
		MAX1607ESA+C7105	135C, 5.25V	1000 HRS	80	0
		5				
HIGH TEMP OP LIFE	0731	MAX1526ETM+	135C, 5.25V	1000 HRS	80	0
					<b>Total:</b>	<b>0</b>

**FAILURE RATE:**

**MTTF (YRS): 489105**

**FITS: 0.2**