



1/25/2008

RELIABILITY MONITOR REPORT
FOR

MFN 1.2 μ m Silicon Gate CMOS

MAXIM Integrated Products

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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:

LM4040DEM3-2.	MAX147BEPP+	MAX1510ETB+	MAX1535CETJ+	MAX1616EUK+
MAX1617AMEE	MAX1632AEAI+	MAX1634EAI	MAX1644EAE+	MAX1715EEI+X
MAX1772EEI	MAX1772EEI+	MAX1845EEI+	MAX4477AUA+	MAX5060ATI+
MAX5632AETK	MAX6033BAUT	MAX6315US26D	MAX6333UR23D	MAX8863EUK+
MAX8863SEUK	MAX8863TEUK			

The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 400741** **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: MFN 1.2µm Silicon Gate CMOS

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	054	MAX1535CETJ+	135C, 5.25V	1000 HRS	47	0	
HIGH TEMP OP LIFE	0509	MAX5632AETK	135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0546	MAX1634EAI	135C, 5.25V	1000 HRS	78	0	
HIGH TEMP OP LIFE	0548	MAX1535CETJ+	135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0606	MAX1644EAE+	135C, 5.25V	1000 HRS	80	0	
HIGH TEMP OP LIFE	0616	MAX5060ATI+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0617	MAX1715EEI+X01	135C, 5.25V	1000 HRS	77	0	
		MAX1632AEAI+X01	135C, 5.25V	1000 HRS	77	0	
HIGH TEMP OP LIFE	0622	MAX147BEPP+	135C, 5.25V	1000 HRS	77	0	
HIGH TEMP OP LIFE	0629	MAX1616EUK+	135C, 5.25V	1000 HRS	54	0	
HIGH TEMP OP LIFE	0640	MAX1617AMEE	135C, 5.25V	1000 HRS	80	0	
HIGH TEMP OP LIFE	0643	MAX6315US26D3+	135C, 5.25V	1000 HRS	77	0	
HIGH TEMP OP LIFE	0646	MAX6333UR23D2-C07	135C, 5.25V	1000 HRS	78	0	
HIGH TEMP OP LIFE	0649	MAX1845EEI+	135C, 5.25V	1000 HRS	78	0	
HIGH TEMP OP LIFE	0652	LM4040DEM3-2.5+	135C, 5.25V	1000 HRS	78	0	
HIGH TEMP OP LIFE	0701	MAX8863EUK+	135C, 5.25V	1000 HRS	44	0	
			135C, 5.25V	1000 HRS	44	0	
			135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0706	MAX1510ETB+	135C, 5.25V	1000 HRS	48	0	

HIGH TEMP OP LIFE	0710	MAX4477AUA+	135C, 5.25V	1000 HRS	80	0
HIGH TEMP OP LIFE	0716	MAX6033BAUT41+	135C, 5.25V	1000 HRS	43	0
			135C, 5.25V	1000 HRS	45	0
		MAX8863SEUK+T	135C, 5.25V	1000 HRS	50	0
		MAX6033BAUT41+	135C, 5.25V	1000 HRS	45	0
		MAX8863SEUK+T	135C, 5.25V	1000 HRS	50	0
			135C, 5.25V	1000 HRS	50	0
HIGH TEMP OP LIFE	0718	MAX4477AUA+	135C, 5.25V	1000 HRS	80	0
HIGH TEMP OP LIFE	0721	MAX1644EAE+	135C, 5.25V	1000 HRS	80	0
HIGH TEMP OP LIFE	0725	MAX1772EEI	135C, 5.25V	1000 HRS	50	0
		MAX1772EEI+	135C, 5.25V	1000 HRS	50	0
			135C, 5.25V	1000 HRS	50	0
HIGH TEMP OP LIFE	0733	MAX8863TEUK+T	135C, 5.25V	1000 HRS	50	0
			135C, 5.25V	1000 HRS	50	0
			135C, 5.25V	1000 HRS	50	0
HIGH TEMP OP LIFE	MIXE	MAX5632AETK	135C, 5.25V	1000 HRS	45	0
				Total:	0	0

FAILURE RATE:

MTTF (YRS): 400741

FITS: 0.3