



4/17/2012

**RELIABILITY MONITOR REPORT  
FOR**

**MFN 1.2 $\mu$ m Silicon Gate CMOS (S12)**

**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:

MAX6008AEUR	MAX6138BEXR
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 15309 QUANTITY: 79 FAILS: 0 FITS: 7.5**

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 4/1/2011 and 3/31/2012 .

**Process Information:**

Process Description: MFN 1.2µm Silicon Gate CMOS (S12)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1141	MAX6138BEXR25/V+T	135C	1000 HRS	79	0	N4V2CA096F
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1141	MAX6138BEXR25/V+T	150C	1024 HRS	50	0	N4V2CA096F
<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	1030	MAX6008AEUR+	-65C TO 150C	1000 CYS	67	0	N93CCA178B#
TEMP CYCLE, 5' RAMP, 10' DWELL	1030	MAX6008AEUR+	-65C TO 150C	1000 CYS	65	0	N93CCA178CX
TEMP CYCLE, 5' RAMP, 10' DWELL	1030	MAX6008AEUR+	-65C TO 150C	1000 CYS	67	0	N93CCA178GX
TEMP CYCLE, 5' RAMP, 10' DWELL	1141	MAX6138BEXR25/V+T	-65C TO 150C	1000 CYS	80	0	N4V2CA096F
TEMP CYCLE, 5' RAMP, 10' DWELL	1142	MAX6138BEXR25/V+T	-65C TO 150C	1000 CYS	80	0	N4V2CA096G
TEMP CYCLE, 5' RAMP, 10' DWELL	1142	MAX6138BEXR25/V+T	-65C TO 150C	1000 CYS	80	0	N4V2CA096H
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 15309 QUANTITY: 79 FAILS: 0 FITS: 7.5**