



4/17/2012

**RELIABILITY MONITOR REPORT  
FOR**

**MFN Dual Poly Emitter 0.8 $\mu$ m BiCMOS (MB10)**

**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:

806-0636-20+	806-0637-20+	MAX2116UTL+	MAX2363ETM+
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 60266      QUANTITY: 311      FAILS: 0      FITS: 1.9**

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

**Process Information:**

Process Description:      MFN Dual Poly Emitter 0.8µm BiCMOS (MB10)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1112	MAX2116UTL+	135C	1000 HRS	80	0	ND71L21D3C
HIGH TEMP OP LIFE	1132	MAX2363ETM+	135C	1000 HRS	77	0	N33BF3277Q1
HIGH TEMP OP LIFE	1132	MAX2363ETM+	135C	1000 HRS	77	0	N33BF3277Q2
HIGH TEMP OP LIFE	1132	MAX2363ETM+	135C	1000 HRS	77	0	N33BF3277Q3
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1107	806-0636-20+	150C	500 HRS	77	0	NM9753098A
STORAGE LIFE	1107	806-0636-20+	150C	1000 HRS	77	0	NM9753098BA
STORAGE LIFE	1107	806-0636-20+	150C	1000 HRS	77	0	NM9753098B
STORAGE LIFE	1114	806-0636-20+	150C	1000 HRS	77	0	NM9753099E
STORAGE LIFE	1132	MAX2363ETM+	150C	1000 HRS	77	0	N33BF3277Q1
STORAGE LIFE	1132	MAX2363ETM+	150C	500 HRS	77	0	N33BF3277Q2
STORAGE LIFE	1132	MAX2363ETM+	150C	1000 HRS	77	0	N33BD3277Q2Q
STORAGE LIFE	1132	MAX2363ETM+	150C	1000 HRS	77	0	N33BF3277Q3
<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	1107	806-0637-20+	-65C TO 150C	1000 CYS	77	0	NM9753098A
TEMP CYCLE, 5' RAMP, 10' DWELL	1107	806-0636-20+	-65C TO 150C	1000 CYS	77	0	NM9753098B

TEMP CYCLE, 5' RAMP, 10' DWELL	1114	806-0636-20+	-65C TO 150C	1000	CYS	77	0	NM9753099E
TEMP CYCLE, 5' RAMP, 10' DWELL	1132	MAX2363ETM+	-65C TO 150C	1000	CYS	77	0	N33BF3277Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1132	MAX2363ETM+	-65C TO 150C	1000	CYS	77	0	N33BF3277Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1132	MAX2363ETM+	-65C TO 150C	1000	CYS	77	0	N33BF3277Q3

**Total:** **0**

**FAILURE RATE:    MTTF (YRS): 60266    QUANTITY: 311    FAILS: 0    FITS: 1.9**