



7/19/2012

**RELIABILITY MONITOR REPORT
FOR**

MFN Dual Poly Emitter 0.8 μ 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+	MAX2363ETM+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 44764 QUANTITY: 231 FAILS: 0 FITS: 2.6

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 7/1/2011 and 6/30/2012 .

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	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
Total:						0	

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
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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, 1132	MAX2363ETM+	-65C TO 150C	1000	CYS	77	0	N33BF3277Q2
10' DWELL							
TEMP CYCLE, 5' RAMP, 1132	MAX2363ETM+	-65C TO 150C	1000	CYS	77	0	N33BF3277Q3
10' DWELL							

Total: 0

FAILURE RATE: **MTTF (YRS): 44764** **QUANTITY: 231** **FAILS: 0** **FITS: 2.6**