

4/16/2014



**RELIABILITY MONITOR REPORT
FOR**

MFN Dual Poly Emitter 0.8 μ m CMOS (MB10)

MAXIM INTEGRATED

**160 RIO ROBLES
SAN JOSE, CA 95134**

**This Report was prepared by
MAXIM INTEGRATED 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:

MAX2363ETM+

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 52224 QUANTITY: 308 FAILS: 0 FITS: 2.2

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 4/1/2013 and 3/31/2014 .

Process Information:

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

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1315	MAX2363ETM+	135°C	500 HRS	77	0	N33BF3188Q1
HIGH TEMP OP LIFE	1315	MAX2363ETM+	135°C	1000 HRS	77	0	N33BF3177Q1
HIGH TEMP OP LIFE	1315	MAX2363ETM+	135°C	1000 HRS	77	0	N33BF3188Q2
HIGH TEMP OP LIFE	1315	MAX2363ETM+	135°C	1000 HRS	77	0	N33BF3188Q3
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1315	MAX2363ETM+	150°C	1000 HRS	77	0	N33BF3188Q1
STORAGE LIFE	1315	MAX2363ETM+	150°C	1000 HRS	77	0	N33BF3188Q2
STORAGE LIFE	1315	MAX2363ETM+	150°C	1000 HRS	77	0	N33BF3188Q3
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1315	MAX2363ETM+	-65C TO 150C	1000 CYS	77	0	N33BF3188Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1315	MAX2363ETM+	-65C TO 150C	1000 CYS	77	0	N33BF3188Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1315	MAX2363ETM+	-65C TO 150C	1000 CYS	77	0	N33BF3188Q3
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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BIASED MOISTURE	1315	MAX2363ETM+	130C, 85% R.H.	100	HRS	35	0	N33BF3188Q1
BIASED MOISTURE	1315	MAX2363ETM+	130C, 85% R.H.	100	HRS	35	0	N33BF3188Q2
BIASED MOISTURE	1315	MAX2363ETM+	130C, 85% R.H.	100	HRS	35	0	N33BF3188Q3

Total: 0

FAILURE RATE: MTTF (YRS): 52224 QUANTITY: 308 FAILS: 0 FITS: 2.2