



4/17/2012

**RELIABILITY MONITOR REPORT
FOR**

MFN Dual Poly Emitter NPN Bipolar (GST20)

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:

MAX3890ECB+	MAX3891ECB+	MX3890ECB+
-------------	-------------	------------

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 17440 QUANTITY: 90 FAILS: 0 FITS: 6.5

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 Dual Poly Emitter NPN Bipolar (GST20)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1046	MAX3891ECB+	135C	1000 HRS	45	0	N10ABQ003Q1
HIGH TEMP OP LIFE	1046	MAX3891ECB+	135C	1000 HRS	45	0	N10ABQ003Q2
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1101	MAX3890ECB+	150C	1000 HRS	77	0	N7SABA004Q1
STORAGE LIFE	1101	MAX3890ECB+	150C	1000 HRS	77	0	N7SABA004Q2
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1011	MAX3890ECB+	-65C TO 150C	1000 CYS	77	0	N7SABA004Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1101	MX3890ECB+	-65C TO 150C	1000 CYS	77	0	N7SABA004Q1
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1046	MAX3891ECB+	85 C/85% R.H.	500 HRS	45	0	N10ABQ002Q2
MOISTURE SOAK	1046	MAX3891ECB+	85 C/85% R.H.	1000 HRS	45	0	N10ABQ003Q2
Total:						0	

FAILURE RATE: MTTF (YRS): 17440 QUANTITY: 90 FAILS: 0 FITS: 6.5