



5/9/2009

RELIABILITY MONITOR REPORT
FOR

MFN Poly Emitter Complementary Bipolar

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:

806-0696-21+	806-0700-21+	MAX4167ESA+	MAX4312EEE+	MAX4394EUD+
MAX9144ESD+				

The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 16254** **FITS: 7.0**

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 and

Process Information:

Process Description: MFN Poly Emitter Complementary Bipolar

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0815	806-0696-21+	135C	1000 HRS	45	0	NFEZC4005BQ
HIGH TEMP OP LIFE	0843	806-0700-21+	135C	288 HRS	135	0	N23Q3037BX
HIGH TEMP OP LIFE	0843	806-0700-21+	135C	500 HRS	135	0	N23Q3037BX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0747	MAX4394EUD+	150C	1000 HRS	80	0	N8W0AA014K#
STORAGE LIFE	0752	MAX9144ESD+	150C	1000 HRS	80	0	N21ABA041J
STORAGE LIFE	0752	MAX4167ESA+	150C	1000 HRS	80	0	NB7ACA042P
STORAGE LIFE	0806	MAX4312EEE+	150C	1000 HRS	80	0	NWXADA009J#
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0752	MAX4167ESA+	-65C TO 150C	1000 CYS	80	0	NB7ACA042P
TEMP CYCLE, 5' RAMP, 10' DWELL	0806	MAX4312EEE+	-65C TO 150C	1000 CYS	80	0	NWXADA009J#
Total:						0	

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