



5/9/2009

**RELIABILITY MONITOR REPORT
FOR**

MFN 80V Bipolar CMOS DMOS

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:

MAX13448EESD	MAX16816ATJ+	MAX16823AUE+	MAX16912ETT+	MAX16913GEE+
MAX5090AATE	MAX6397LATA	MAX6397MATA	MAX6496ATA+	MAX8798ETX+
MAX9714ETJ+				

The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 38496** **FITS: 3.0**

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 1/1/2008 and 12/31/2008.

Process Information:

Process Description: MFN 80V Bipolar CMOS DMOS

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0737	MAX9714ETJ+	135C	1000 HRS	45	0	NHH0BA764A#
HIGH TEMP OP LIFE	0739	MAX16816ATJ+	135C	192 HRS	55	0	NBRTAAFAQ
HIGH TEMP OP LIFE	0741	MAX16912ETT+	135C	192 HRS	48	0	NKXZAQ001CQ
HIGH TEMP OP LIFE	0750	MAX6496ATA+	135C	1000 HRS	46	0	NW1ABQ002B#
HIGH TEMP OP LIFE	0803	MAX13448EESD+	135C	192 HRS	50	0	NGAZCQ001AQ
HIGH TEMP OP LIFE	0807	MAX8798ETX+	135C	168 HRS	48	0	NBKTBAP
HIGH TEMP OP LIFE	0819	MAX16823AUE+	135C	832 HRS	80	0	NEOZAQ001A#
HIGH TEMP OP LIFE	0822	MAX16913GEE+	135C	192 HRS	50	0	NMMZBQ001BQ
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0813	MAX16823AUE+	150C	500 HRS	45	0	NEOXAQ001H#
STORAGE LIFE	0813	MAX16823AUE+	150C	1000 HRS	43	0	NEOZAQ001H#
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0652	MAX6397MATA+	-65C TO 150C	1000 CYS	80	0	NWI0DA007E#
TEMP CYCLE, 5' RAMP, 10' DWELL	0704	MAX6397LATA+	-65C TO 150C	1000 CYS	77	0	NWI0CA005H#

TEMP CYCLE, 5' RAMP, 10' DWELL	0746	MAX5090AATE+	-65C TO 150C	1000	CYS	80	0	NZ6AAQ002D#
TEMP CYCLE, 5' RAMP, 10' DWELL	0807	MAX8798ETX+	-65C TO 150C	1000	CYS	99	0	NBKTBAP
TEMP CYCLE, 5' RAMP, 10' DWELL	0813	MAX16823AUE+	-65C TO 150C	500	CYS	79	0	NEOZAQ001H#

Total: **0**

FAILURE RATE: **MTTF (YRS): 38496** **FITS: 3.0**