



5/9/2009

RELIABILITY MONITOR REPORT
FOR

MFN 80V Bipolar CMOS DMOS

MAXIM Integrated Products

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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:

MAX13208EALB	MAX13448EESD	MAX14752EUE+	MAX15032ATA+	MAX16816ATJ+
MAX16823AUE+	MAX16912ETT+	MAX16913GEE+	MAX4007EUT+	MAX5035DASA
MAX5963UTL+	MAX6495ATT+	MAX6496ATA+	MAX6793TPLD2	MAX8798ETX+
MAX9546ESA+	MAX9945AUA+			

The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 64129** **FITS: 1.8**

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 80V Bipolar CMOS DMOS

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0738	MAX6793TPLD2+	135C	700 HRS	48	0	NJ1CAA006B#
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	0815	MAX15032ATA+T	135C	192 HRS	48	0	JNKZAQ001EQ
HIGH TEMP OP LIFE	0817	MAX13208EALB+	135C	500 HRS	40	0	NZPOAQ002F#
HIGH TEMP OP LIFE	0817	MAX13208EALB+	135C	500 HRS	39	0	NZPOAQ002F#
HIGH TEMP OP LIFE	0819	MAX16823AUE+	135C	832 HRS	80	0	NEOZAQ001A#
HIGH TEMP OP LIFE	0819	MAX14752EUE+	135C	192 HRS	48	0	NPBZA3001AQ
HIGH TEMP OP LIFE	0820	MAX4007EUT+	135C	192 HRS	48	0	JDI0CQ001AQ
HIGH TEMP OP LIFE	0822	MAX16913GEE+	135C	192 HRS	50	0	NMMZBQ001BQ
HIGH TEMP OP LIFE	0824	MAX13208EALB+	135C	500 HRS	40	0	NZPOAA004A#
HIGH TEMP OP LIFE	0827	MAX5963UTL+	135C	192 HRS	48	0	JMAZBQ002BQ
HIGH TEMP OP LIFE	0839	MAX9945AUA+	135C	192 HRS	48	0	JTGZAQ001DQ
HIGH TEMP OP LIFE	0845	MAX5035DASA+	135C	192 HRS	32	0	J6Y3GA0100
HIGH TEMP OP LIFE	0851	MAX6496ATA+	135C	652 HRS	48	0	JW1ADQ001B#
					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#
STORAGE LIFE	0831	MAX9546ESA+	150C	740 HRS	45	0	JZR0CQ001F#
STORAGE LIFE	0845	MAX5035DASA+	150C	500 HRS	80	0	J6Y3GA010D#
STORAGE LIFE	0851	MAX6495ATT+	150C	1000 HRS	45	0	JW1ADQ001C#
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0807	MAX8798ETX+	-65C TO 150C	1000 CYS	99	0	NBKTBP
TEMP CYCLE, 5' RAMP, 10' DWELL	0813	MAX16823AUE+	-65C TO 150C	500 CYS	79	0	NEOZAQ001H#
TEMP CYCLE, 5' RAMP, 10' DWELL	0845	MAX5035DASA+	-65C TO 150C	200 CYS	80	0	J6Y3GA010D#
TEMP CYCLE, 5' RAMP, 10' DWELL	0851	MAX6495ATT+	-65C TO 150C	500 CYS	80	0	JW1ADQ001C#
Total:						0	

FAILURE RATE:**MTTF (YRS): 64129****FITS: 1.8**