



10/8/2010

RELIABILITY MONITOR REPORT
FOR

MFN 80V Bipolar CMOS DMOS (BCD80)

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:

MAX13041ASD/ MAX6921AWI+	MAX13050ASA+	MAX4896EUP	MAX5026EUT+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 42830 QUANTITY: 286 FAILS: 0 FITS: 2.7

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 10/1/2009 and 9/30/2010 .

Process Information:

Process Description: MFN 80V Bipolar CMOS DMOS (BCD80)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0527	MAX4896EUP	135C	192 HRS	48	0	NWO0AQ001BQ
HIGH TEMP OP LIFE	1007	MAX5026EUT+T	135C	1000 HRS	80	0	N310F2003BB
HIGH TEMP OP LIFE	1007	MAX5026EUT+T	135C	1000 HRS	54	0	J3IOE2011BB
HIGH TEMP OP LIFE	1019	MAX5026EUT+	135C	500 HRS	52	0	N310F2005CB
HIGH TEMP OP LIFE	1019	MAX5026EUT+	135C	1000 HRS	52	0	N310F2005CB
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0927	MAX13041ASD/V+	150C	1000 HRS	77	0	NAFSAAR
STORAGE LIFE	1013	MAX6921AWI+	150C	500 HRS	45	0	NJU0BA035K#
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0927	MAX13041ASD/V+	-65C TO 150C	1000 CYS	77	0	NAFSAAR
TEMP CYCLE, 5' RAMP, 10' DWELL	0934	MAX13050ASA+	-65C TO 150C	1000 CYS	80	0	NSROAAVQ1
TEMP CYCLE, 5' RAMP, 10' DWELL	0934	MAX13050ASA+	-65C TO 150C	1000 CYS	80	0	NSROAAVQ2
TEMP CYCLE, 5' RAMP, 10' DWELL	0934	MAX13050ASA+	-65C TO 150C	1000 CYS	80	0	NSROAAVQ3
Total:						0	

FAILURE RATE: **MTTF (YRS): 42830** **QUANTITY: 286** **FAILS: 0** **FITS: 2.7**