

4/16/2014



**RELIABILITY MONITOR REPORT  
FOR**

**MFN 250V Bipolar CMOS DMOS (BCD250)**

**MAXIM INTEGRATED**

**160 RIO ROBLES  
SAN JOSE, CA 95134**

**This Report was prepared by  
MAXIM INTEGRATED 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:

MAX14803CCM	MAX15013AAS	MAX4811CTN+
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 11503      QUANTITY: 124      FAILS: 0      FITS: 9.9**

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 4/1/2013 and 3/31/2014 .

**Process Information:**

Process Description: MFN 250V Bipolar CMOS DMOS (BCD250)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1236	MAX15013AASA+	135°C	1000 HRS	44	0	NOP2B3122C
HIGH TEMP OP LIFE	1310	MAX14803CCM+	135°C	1096 HRS	80	0	NRSWDA091A#
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1403	MAX4811CTN+	150°C	500 HRS	80	0	NKUYB2149AA
STORAGE LIFE	1406	MAX14803CCM+	150°C	500 HRS	80	0	NRSWD2125A
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1403	MAX4811CTN+	-65C TO 150C	1000 CYS	80	0	NKUYB2149AA
<b>Total:</b>						<b>0</b>	

**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1403	MAX4811CTN+	130C, 85% R.H.	100 HRS	80	0	NKUYB2149AA
MOISTURE SOAK	1406	MAX14803CCM+	130C, 85% R.H.	100 HRS	80	0	NRSWD2125A
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 11503      QUANTITY: 124      FAILS: 0      FITS: 9.9**