

**8/1/2019**



**RELIABILITY MONITOR REPORT  
FOR**

**MFN 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:

MAX14802ECM	MAX15013AASA	MAX3223EEUP+	MAX4990ETD+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 36571    QUANTITY: 318    FAILS: 0    FITS: 3.1**

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 4/1/2019 and 8/1/2019 .

**Process Information:**

Process Description:            MFN BCD250

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1826	MAX14802ECM+	125°C	1000 HRS	80	0	NBMW1A368AX
HIGH TEMP OP LIFE	1848	MAX15013AASA+	125°C	192 HRS	80	0	NOP2BA374BA
HIGH TEMP OP LIFE	1848	MAX15013AASA+	125°C	192 HRS	80	0	NOP2BA374BA
HIGH TEMP OP LIFE	1911	MAX3223EEUP+	125°C	1000 HRS	78	0	JAKC0A298CA
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1821	MAX15013AASA+	150°C	1000 HRS	80	0	NOP2BA351AX
STORAGE LIFE	1826	MAX14802ECM+	150°C	1000 HRS	80	0	NBMW1A368AX
STORAGE LIFE	1848	MAX15013AASA+	150°C	1000 HRS	80	0	NOP2BA374BA
STORAGE LIFE	1911	MAX3223EEUP+	150°C	1000 HRS	80	0	JAKC0A298CA
STORAGE LIFE	1912	MAX4990ETD+	150°C	1000 HRS	80	0	NFVZC3027EX
<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	1821	MAX15013AASA+	-65C TO +150C (Condition C)	1000 CYS	78	0	NOP2BA351AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1826	MAX14802ECM+	-65C TO +150C (Condition C)	1000 CYS	79	0	NBMW1A368AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1848	MAX15013AASA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NOP2BA374BA

TEMP CYCLE, 5' RAMP, 10' DWELL	1911	MAX3223EEUP+	-65C TO +150C (Condition C)	1000	CYS	80	0	JAKC0A298CA
TEMP CYCLE, 5' RAMP, 10' DWELL	1912	MAX4990ETD+	-65C TO +150C (Condition C)	1000	CYS	80	0	NFVZC3027EX
<b>Total:</b>							<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE	TEST CODE	VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1821	MAX15013AASA+		130C, 85% R.H.	96 HRS	80	0	NOP2BA351AX
BIASED MOISTURE	1848	MAX15013AASA+		130C, 85% R.H.	96 HRS	80	0	NOP2BA374BA
BIASED MOISTURE	1911	MAX3223EEUP+		130C, 85% R.H.	96 HRS	77	0	JAKC0A298CA
<b>Total:</b>							<b>0</b>	

**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE	TEST CODE	VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1826	MAX14802ECM+		130C, 85% R.H.	96 HRS	80	0	NBMW1A368AX
MOISTURE SOAK	1912	MAX4990ETD+		130C, 85% R.H.	96 HRS	80	0	NFVZC3027EX
<b>Total:</b>							<b>0</b>	

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