

1/24/2019



**RELIABILITY MONITOR REPORT  
FOR**

**MFN BCD88**

**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:

MAX15005BAU	MAX15006AAT	MAX5026EUT+	MAX5033BASA	MAX5090BATE
MAX5090CATE				

The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 97085    QUANTITY: 562    FAILS: 0    FITS: 1.2**

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 10/1/2018 and 12/31/2018.

**Process Information:**

Process Description:            MFN BCD88

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1733	MAX15005BAUE/V+	135°C	1000 HRS	48	0	J831C3383BX
HIGH TEMP OP LIFE	1733	MAX15005BAUE/V+	135°C	1000 HRS	32	0	J831C3383BX
HIGH TEMP OP LIFE	1741	MAX15006AATT+	135°C	1000 HRS	47	0	JADZBA629B
HIGH TEMP OP LIFE	1741	MAX15006AATT+	135°C	1000 HRS	33	0	JADZBA629B
HIGH TEMP OP LIFE	1744	MAX5033BASA+	135°C	1000 HRS	48	0	J6Y5GA819FA
HIGH TEMP OP LIFE	1744	MAX5033BASA+	135°C	1000 HRS	32	0	J6Y5GA819FA
HIGH TEMP OP LIFE	1744	MAX5026EUT+	135°C	1000 HRS	79	0	J3I0G3075BF
HIGH TEMP OP LIFE	1805	MAX5090CATE+	135°C	500 HRS	80	0	JZ6DB3081K
HIGH TEMP OP LIFE	1809	MAX5090BATE+	125°C	1000 HRS	79	0	JZ6BBA083AX
HIGH TEMP OP LIFE	1823	MAX15005BAUE/V+	125°C	1000 HRS	42	0	J831CA469AX
HIGH TEMP OP LIFE	1828	MAX15006AATT+	125°C	500 HRS	42	0	JADZBA760DX
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1741	MAX15006AATT+	150°C	1000 HRS	80	0	JADZBA629B
STORAGE LIFE	1744	MAX5033BASA+	150°C	1000 HRS	80	0	J6Y5GA819FA
STORAGE LIFE	1744	MAX5033BASA+	150°C	1000 HRS	80	0	J6Y5GA819FB
STORAGE LIFE	1744	MAX5026EUT+	150°C	1000 HRS	90	0	J3I0G3075BF
STORAGE LIFE	1809	MAX5090BATE+	150°C	1000 HRS	80	0	JZ6BBA083AX
STORAGE LIFE	1823	MAX15005BAUE/V+	150°C	1000 HRS	80	0	J831CA469AX

STORAGE LIFE	1828	MAX15006AATT+	150°C	1000	HRS	80	0	JADZBA760DX
						<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	1741	MAX15006AATT+	-65C TO +150C (Condition C)	1000	CYS	80	0 JADZBA629B
TEMP CYCLE, 5' RAMP, 10' DWELL	1744	MAX5033BASA+	-65C TO +150C (Condition C)	1000	CYS	80	0 J6Y5GA819FA
TEMP CYCLE, 5' RAMP, 10' DWELL	1744	MAX5033BASA+	-65C TO +150C (Condition C)	1000	CYS	80	0 J6Y5GA819FB
TEMP CYCLE, 5' RAMP, 10' DWELL	1744	MAX5026EUT+	-65C TO +150C (Condition C)	1000	CYS	80	0 J310G3075BF
TEMP CYCLE, 5' RAMP, 10' DWELL	1809	MAX5090BATE+	-65C TO +150C (Condition C)	1000	CYS	80	0 JZ6BBA083AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1823	MAX15005BAUE/V+	-65C TO +150C (Condition C)	1000	CYS	80	0 J831CA469AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1828	MAX15006AATT+	-65C TO +150C (Condition C)	1000	CYS	80	0 JADZBA760DX
						<b>Total:</b>	<b>0</b>

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1741	MAX15006AATT+	85 C/85% R.H.	96	HRS	80	0 JADZBA629B
BIASED MOISTURE	1744	MAX5033BASA+	85 C/85% R.H.	96	HRS	77	0 J6Y5GA819FA
BIASED MOISTURE	1744	MAX5033BASA+	85 C/85% R.H.	96	HRS	77	0 J6Y5GA819FB
BIASED MOISTURE	1744	MAX5026EUT+	85 C/85% R.H.	96	HRS	80	0 J310G3075BF
BIASED MOISTURE	1809	MAX5090BATE+	130C, 85% R.H.	96	HRS	80	0 JZ6BBA083AX
BIASED MOISTURE	1823	MAX15005BAUE/V+	130C, 85% R.H.		HRS	80	0 J831CA469AX
						<b>Total:</b>	<b>0</b>

**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1744	MAX5033BASA+	130C, 85% R.H.	96	HRS	80	0 J6Y5GA819FA
MOISTURE SOAK	1744	MAX5033BASA+	130C, 85% R.H.	96	HRS	80	0 J6Y5GA819FB
MOISTURE SOAK	1744	MAX5026EUT+	130C, 85% R.H.	96	HRS	80	0 J310G3075BF
						<b>Total:</b>	<b>0</b>

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