



4/17/2012

RELIABILITY MONITOR REPORT  
FOR

**MFN 0.8 $\mu$ m Silicon Gate (C3)**

**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:

MAX3222EEUP+
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 31005      QUANTITY: 240      FAILS: 0      FITS: 3.7**

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 4/1/2011 and 3/31/2012 .

**Process Information:**

Process Description:      MFN 0.8µm Silicon Gate (C3)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1112	MAX3222EEUP+	135C	500 HRS	80	0	J2DZAQ001YC
HIGH TEMP OP LIFE	1115	MAX3222EEUP+	135C	1000 HRS	80	0	J2DZAQ002AA
HIGH TEMP OP LIFE	1117	MAX3222EEUP+	135C	1000 HRS	80	0	J2DZAQ003BA
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1112	MAX3222EEUP+	150C	1000 HRS	80	0	J2DZAQ001YC
STORAGE LIFE	1115	MAX3222EEUP+	150C	1000 HRS	80	0	J2DZAQ002AA
STORAGE LIFE	1117	MAX3222EEUP+	150C	1000 HRS	80	0	J2DZAQ003BA
<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	1112	MAX3222EEUP+	-65C TO 150C	200 CYS	80	0	J2DZAQ001YC
TEMP CYCLE, 5' RAMP, 10' DWELL	1115	MAX3222EEUP+	-65C TO 150C	500 CYS	80	0	J2DZAQ002AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1117	MAX3222EEUP+	-65C TO 150C	500 CYS	80	0	J2DZAQ003BA
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 31005      QUANTITY: 240      FAILS: 0      FITS: 3.7**