



4/17/2012

RELIABILITY MONITOR REPORT  
FOR

**MFN SiGe HBT BiPolar (GST30)**

**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:

MAX2750AUA+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 5953    QUANTITY: 160    FAILS: 0    FITS: 19.2**

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

**Process Information:**

Process Description:            MFN SiGe HBT BiPolar (GST30)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1108	MAX2750AUA+	135C	192 HRS	80	0	N7CBH3014CZ
HIGH TEMP OP LIFE	1112	MAX2750AUA+	135C	192 HRS	80	0	N7CBHA016CA
<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	1108	MAX2750AUA+	-65C TO 150C	1000 CYS	78	0	N7CBH3014CZ
TEMP CYCLE, 5' RAMP, 10' DWELL	1112	MAX2750AUA+	-65C TO 150C	1000 CYS	75	0	N7CBHA016CA
<b>Total:</b>						<b>0</b>	

**FAILURE RATE:    MTTF (YRS): 5953    QUANTITY: 160    FAILS: 0    FITS: 19.2**