1/20/2015

RELIABILITY MONITOR REPORT
FOR

# MFN SiGe HBT BiPolar (GST30)

## 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:

| | |
|---|---|
| MAX2750AUA+ | MAX2750EUA= |

The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 29314 QUANTITY: 200 FAILS: 0 FITS: 3.9**

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 1/1/2014 and 12/31/2014.

**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 | 1433 | MAX2750EUA= | 135°C | 764 | HRS | 200 | 0 | N7CBH3034CA |
| | | | | | **Total:** | | **0** | |

**TEMPERATURE CYCLE**

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | | QUANTITY | FAILS | LOT NO. |
|---|---|---|---|---|---|---|---|---|
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1433 | MAX2750AUA+ | -65C TO +150C (Condition C) | 200 | CYS | 100 | 0 | N7CBH3034CA |
| | | | | | **Total:** | | **0** | |

**UNBIASED MOISTURE RESISTANCE**

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | | QUANTITY | FAILS | LOT NO. |
|---|---|---|---|---|---|---|---|---|
| MOISTURE SOAK | 1433 | MAX2750AUA+ | 130C, 85% R.H. | 96 | HRS | 200 | 0 | N7CBH3034CA |
| | | | | | **Total:** | | **0** | |

**FAILURE RATE: MTTF (YRS): 29314 QUANTITY: 200 FAILS: 0 FITS: 3.9**