

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

San Antonio E35

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:

| | | | |
|--------------|-------------|-------------|--------------|
| 87-1L91U+33V | MAX5054BATA | MAX5479ETE+ | MAX5487ETE+T |
|--------------|-------------|-------------|--------------|

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 46314 QUANTITY: 239 FAILS: 0 FITS: 2.5

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 7/1/2017 and 9/30/2017 .

Process Information:

Process Description: San Antonio E35

OPERATING LIFE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. |
|-------------------|-----------|---------------|-----------|-----------|----------|----------|-------------|
| HIGH TEMP OP LIFE | 1602 | MAX5487ETE+T | 135°C | 1000 HRS | 80 | 0 | TSE0E2075B |
| HIGH TEMP OP LIFE | 1637 | 87-1L91U+33V | 135°C | 1000 HRS | 79 | 0 | ZJ633583C |
| HIGH TEMP OP LIFE | 1716 | MAX5054BATA+T | 135°C | 1000 HRS | 48 | 0 | TJC0EA148CB |
| HIGH TEMP OP LIFE | 1716 | MAX5054BATA+T | 135°C | 1000 HRS | 32 | 0 | TJC0EA148CB |
| Total: | | | | | | 0 | |

STORAGE LIFE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. |
|---------------|-----------|---------------|-----------|-----------|----------|----------|-------------|
| STORAGE LIFE | 1602 | MAX5487ETE+T | 150°C | 1000 HRS | 80 | 0 | TSE0E2075B |
| STORAGE LIFE | 1637 | 87-1L91U+33V | 150°C | 1000 HRS | 86 | 0 | ZJ633583C |
| STORAGE LIFE | 1716 | MAX5054BATA+T | 150°C | 1000 HRS | 80 | 0 | TJC0EA148CB |
| Total: | | | | | | 0 | |

TEMPERATURE CYCLE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. |
|--------------------------------|-----------|---------------|-----------------------------|-----------|----------|----------|-------------|
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1602 | MAX5487ETE+T | -65C TO +150C (Condition C) | 1000 CYS | 80 | 0 | TSE0E2075B |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1637 | 87-1L91U+33V | -65C TO +150C (Condition C) | 1000 CYS | 95 | 0 | ZJ633583C |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1716 | MAX5054BATA+T | -65C TO +150C (Condition C) | 1000 CYS | 80 | 0 | TJC0EA148CB |
| Total: | | | | | | 0 | |

TEMPERATURE HUMIDITY BIAS

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. | |
|-----------------|--------------|-----------------|-----------|-----------|----------|----------|------------|-------------|
| BIASED MOISTURE | 1602 | MAX5487ETE+T | 130C, 85% | 96 | HRS | 80 | 0 | TSE0E2075B |
| BIASED MOISTURE | 1716 | MAX5054BATA+T | 130C, 85% | 96 | HRS | 78 | 0 | TJC0EA148CB |
| Total: | | | | | | 0 | | |

UNBIASED MOISTURE RESISTANCE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. | |
|---------------|--------------|-----------------|-----------|-----------|----------|----------|------------|-----------|
| MOISTURE SOAK | 1637 | 87-1L91U+33V | 130C, 85% | 96 | HRS | 80 | 0 | ZJ633583C |
| Total: | | | | | | 0 | | |

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