



4/20/2008

RELIABILITY MONITOR REPORT  
FOR

**SVL 0.4 $\mu$ m Silicon Gate CMOS**

**MAXIM Integrated Products**

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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:

|              |             |             |             |             |
|--------------|-------------|-------------|-------------|-------------|
| MAX16803ATE+ | MAX17017ETM | MAX1785EUU+ | MAX7454UUP+ | MAX8630XETD |
| MAX8784ETL   | MAX8784ETL+ | MAXQ7665BAT |             |             |

The calculated failure rate for devices using this process is:

**FAILURE RATE:                    MTTF (YRS): 142430                    FITS: 0.8**

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 4/1/2007 and 3/31/2008 .

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**Process Information:**

Process Description:                    SVL 0.4µm Silicon Gate CMOS

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**OPERATING LIFE**

| DESCRIPTION       | DATE CODE | TEST VEHICLE   | CONDITION   | READPOINT | QUANTITY      | FAILS | FA NO    |
|-------------------|-----------|----------------|-------------|-----------|---------------|-------|----------|
| HIGH TEMP OP LIFE |           | MAX8784ETL     | 135C, 5.25V | 1000 HRS  | 33            | 0     |          |
|                   |           | MAX8784ETL+    | 135C, 5.25V | 1000 HRS  | 43            | 0     |          |
|                   |           | MAX1785EUU+    | 135C, 5.25V | 1000 HRS  | 80            | 0     |          |
|                   |           |                | 135C, 5.25V | 1000 HRS  | 80            | 0     |          |
|                   |           | MAX7454UUP+    | 135C, 5.25V | 1000 HRS  | 80            | 0     |          |
|                   |           | MAX8630XETD20+ | 135C, 5.25V | 1000 HRS  | 48            | 0     |          |
|                   |           | MAX17017ETM+   | 135C, 5.25V | 1000 HRS  | 71            | 0     |          |
|                   |           |                | 135C, 5.25V | 1000 HRS  | 77            | 0     |          |
|                   |           | MAX16803ATE+   | 135C, 5.25V | 1000 HRS  | 80            | 0     |          |
|                   |           | MAXQ7665BATM+  | 135C, 5.25V | 1000 HRS  | 47            | 0     |          |
|                   |           |                | 135C, 5.25V | 1000 HRS  | 48            | 0     |          |
|                   |           |                | 135C, 5.25V | 1000 HRS  | 48            | 0     |          |
|                   |           |                |             |           | <b>Total:</b> |       | <b>0</b> |

**FAILURE RATE:                    MTTF (YRS): 142430                    FITS: 0.8**