



1/25/2008

**RELIABILITY MONITOR REPORT
FOR**

QFN Package

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 Package Reliability Monitor. The specific assemblies included in this package monitor are:

| ASSY SITE | PINS | PACKAGE |
|-----------------|------|----------------|
| UTL (NSEB) UTAC | 10 | TDFN (Pb-Free) |

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 5288 FITS: 21.6

The parameters used to calculate this failure rate are as follows:

Cf: 60% Ea: 0.7 Tu: 25 °C

The reliability data follows. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. The reliability data section includes the latest data available. This report covers data between and

Assembly Information:

Package Type: TDFN
 Flammability: UL 94-V0
 Date Code Range: 0642 to 0642

OPERATING LIFE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | FA NO |
|-------------------|-----------|--------------|-----------------|-----------|----------|----------|-------|
| HIGH TEMP OP LIFE | 0642 | DS2786 | 125C, 5.5 VOLTS | 1000 HRS | 45 | 0 | |
| Total: | | | | | | 0 | |

WE ENDURANCE AND DATA RET'N

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | FA NO |
|---------------------------|-----------|--------------|---|-----------|----------|----------|-------|
| WRITE CYCLE STRESS (KCYS) | 0642 | DS2786 | 50 C, 5.5 VOLTS (PSA), 15.0 VOLTS (PSB) | 10 KCYS | 77 | 0 | |
| STORAGE LIFE | | | 150C | 1000 HRS | 77 | 0 | |
| WRITE CYCLE STRESS (KCYS) | 0642 | DS2786 | 50 C, 5.5 VOLTS (PSA), 15.0 VOLTS (PSB) | 1 KCYS | 77 | 0 | |
| STORAGE LIFE | | | 150C | 1000 HRS | 77 | 0 | |
| WRITE CYCLE STRESS (CYS) | 0642 | DS2786 | 50 C, 5.5 VOLTS (PSA), 15.0 VOLTS (PSB) | 100 CYS | 77 | 0 | |
| STORAGE LIFE | | | 150C | 1000 HRS | 77 | 0 | |
| Total: | | | | | | 0 | |

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