

# RELIABILITY REPORT



**RELIABILITY DATA  
LT1792 / LT1793**

**8/21/2006**

**• OPERATING LIFE TEST**

| PACKAGE TYPE | SAMPLE SIZE | OLDEST DATE CODE | NEWEST DATE CODE | K DEVICE HOURS <sup>(1)</sup> AT +125°C | NUMBER OF <sup>(2)</sup> FAILURES |
|--------------|-------------|------------------|------------------|---|-----------------------------------|
| PLASTIC DIP  | 77<br>77    | 9901             | 9901             | 77.00<br>77.00                          | 0<br>0                            |

**• PRESSURE COOKER TEST AT 15 PSIG, +121°C**

| PACKAGE TYPE  | SAMPLE SIZE  | OLDEST DATE CODE | NEWEST DATE CODE | K DEVICE HOURS   | NUMBER OF FAILURES |
|---------------|--------------|------------------|------------------|------------------|--------------------|
| PLASTIC DIP   | 647          | 9903             | 0119             | 15.53            | 0                  |
| SOIC/SOT/MSOP | 595<br>1,242 | 9903             | 0129             | 137.52<br>153.05 | 0<br>0             |

**• TEMP CYCLE FROM -65°C to +150°C**

| PACKAGE TYPE  | SAMPLE SIZE | OLDEST DATE CODE | NEWEST DATE CODE | K DEVICE CYCLES  | NUMBER OF FAILURES |
|---------------|-------------|------------------|------------------|------------------|--------------------|
| PLASTIC DIP   | 200         | 9903             | 0119             | 20.05            | 0                  |
| SOIC/SOT/MSOP | 550<br>750  | 9903             | 0129             | 286.45<br>306.50 | 0<br>0             |

**• THERMAL SHOCK FROM -65°C to +150°C**

| PACKAGE TYPE  | SAMPLE SIZE | OLDEST DATE CODE | NEWEST DATE CODE | K DEVICE CYCLES | NUMBER OF FAILURES |
|---------------|-------------|------------------|------------------|-----------------|--------------------|
| PLASTIC DIP   | 150         | 9903             | 9929             | 15.00           | 0                  |
| SOIC/SOT/MSOP | 250<br>400  | 9903             | 0003             | 27.50<br>42.50  | 0<br>0             |

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 23.89 FITS

(3) Mean Time Between Failures in Years = 4,775

Note: 1 FIT = 1 Failure in One Billion Hours.