

RELIABILITY DATA

LT1017 / LT1018

8/21/2006

• OPERATING LIFE TEST

| PACKAGE TYPE | SAMPLE SIZE | OLDEST DATE CODE | NEWEST DATE CODE | K DEVICE HOURS ⁽¹⁾ AT +125°C | NUMBER OF ⁽²⁾ FAILURES |
|--------------|-------------|------------------|------------------|---|-----------------------------------|
| CERDIP | 210 | 8548 | 9724 | 932.74 | 0 |
| HERMETIC | 645 | 8601 | 0052 | 2,260.90 | 0 |
| PLASTIC DIP | 617 | 9205 | 0305 | 2,544.89 | 0 |
| | 1,472 | | | 5,738.53 | 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 | 2,516 | 9109 | 0305 | 280.57 | 0 |
| SOIC/SOT/MSOP | 3,124 | 9120 | 0105 | 96.84 | 0 |
| | 5,640 | | | 377.41 | 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 |
|---------------|-------------|------------------|------------------|-----------------|--------------------|
| HERMETIC | 101 | 9109 | 9811 | 13.30 | 0 |
| PLASTIC DIP | 921 | 9205 | 0345 | 238.40 | 0 |
| SOIC/SOT/MSOP | 717 | 9120 | 0105 | 71.70 | 0 |
| | 1,739 | | | 323.40 | 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 |
|---------------|-------------|------------------|------------------|-----------------|--------------------|
| HERMETIC | 64 | 9109 | 9428 | 4.79 | 0 |
| PLASTIC DIP | 377 | 9205 | 0345 | 184.00 | 0 |
| SOIC/SOT/MSOP | 609 | 9120 | 0105 | 60.90 | 0 |
| | 1,050 | | | 249.69 | 0 |

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 0.32 FITS

(3) Mean Time Between Failures in Years = 356,491

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