

RELIABILITY REPORT



RELIABILITY DATA
LT1526 / LT1527 / LT3526 / LT3527

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 | 115 | 8601 | 8652 | 323.51 | 0 |
| PLASTIC DIP | 45 | 9113 | 9113 | 48.38 | 0 |
| | 160 | | | 371.89 | 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 | 1,240 | 8418 | 9851 | 251.02 | 0 |
| | 1,240 | | | 251.02 | 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 |
|--------------|-------------|------------------|------------------|-----------------|--------------------|
| CERDIP | 217 | 8609 | 9402 | 50.70 | 0 |
| PLASTIC DIP | 215 | 8426 | 9851 | 48.95 | 0 |
| | 432 | | | 99.65 | 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 |
|--------------|-------------|------------------|------------------|-----------------|--------------------|
| CERDIP | 217 | 8609 | 9402 | 40.60 | 0 |
| PLASTIC DIP | 164 | 8426 | 9851 | 33.90 | 0 |
| | 381 | | | 74.50 | 0 |

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 4.95 FITS

(3) Mean Time Between Failures in Years = 23,046

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