

RELIABILITY REPORT



RELIABILITY DATA
LTC1482 / LTC1484 / LTC1690

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 |
|---------------|-------------|------------------|------------------|---|-----------------------------------|
| PLASTIC DIP | 394 | 9813 | 0012 | 354.07 | 0 |
| SOIC/SOT/MSOP | 1,130 | 9813 | 0516 | 952.14 | 0 |
| | 1,524 | | | 1,306.21 | 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 |
|---------------|-------------|------------------|------------------|----------------|--------------------|
| SOIC/SOT/MSOP | 500 | 9814 | 0613 | 84.00 | 0 |
| | 500 | | | 84.00 | 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 | 50 | 0015 | 0015 | 5.00 | 0 |
| SOIC/SOT/MSOP | 1,199 | 9814 | 0613 | 119.90 | 0 |
| | 1,249 | | | 124.90 | 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 |
|---------------|-------------|------------------|------------------|-----------------|--------------------|
| SOIC/SOT/MSOP | 449 | 9814 | 0613 | 44.90 | 0 |
| | 449 | | | 44.90 | 0 |

(1) Assumes Activation Energy = 0.7 Electron Volts
 (2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 9.06 FITS
 (3) Mean Time Between Failures in Years = 12,591
 Note: 1 FIT = 1 Failure in One Billion Hours.