

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.