

# **RELIABILITY DATA** **LT1881 / 1882 / LT1883 / LT1884 / LT1885**

**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
SOIC/SOT/MSOP	54	9940	9940	302.40	0
	54			302.40	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	300	0003	0128	7.20	0
SOIC/SOT/MSOP	848	9945	0453	270.38	0
	1,148			277.58	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	350	0003	0135	63.40	0
SOIC/SOT/MSOP	419	9945	0453	360.68	0
	769			424.08	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	98	0002	0012	17.76	0
SOIC/SOT/MSOP	247	0002	0453	195.40	0
	345			213.16	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 6.08 FITS

(3) Mean Time Between Failures in Years = 18,763

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