

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

**10/26/2003**

**• 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	0135	7.20	0
SOIC/SOT/MSOP	798	9945	0127	269.18	0
	1,098			276.38	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	369	9945	0127	355.68	0
	719			419.08	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	197	0002	0023	190.40	0
	295			208.16	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.