

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

6/27/2002

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ 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	748	9945	0119	243.98	0
	1,048			251.18	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	329.93	0
	719			393.33	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	20002	0012	17.76	0
SOIC/SOT/MSOP	197	20002	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.