

RELIABILITY REPORT



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 ⁽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 SOIC/SOT/MSOP	300	0003	0128	7.20	0
	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 SOIC/SOT/MSOP	350	0003	0135	63.40	0
	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 SOIC/SOT/MSOP	98	0002	0012	17.76	0
	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.