



RELIABILITY DATA
LTC1700 LTC1875/77/78/79 LTC3404 LTC3708 LTC4440

1/26/04

• 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	666	9943	0213	589.11	0
SSOP/TSSOP	231	0201	0345	192.50	0
	897			781.61	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	1,198	9943	0325	199.74	0
SSOP/TSSOP	300	0220	0306	101.95	0
	1,498			301.69	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
SOIC/SOT/MSOP	10,706	9943	0241	1,505.85	0
SSOP/TSSOP	200	0220	0238	200.75	0
	10,906			1,706.60	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	941	0006	0236	525.56	0
SSOP/TSSOP	100	0303	0306	75.00	0
	1,041			600.56	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 15.14 FITS

(3) Mean Time Between Failures in Years = 7,535

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