

**RELIABILITY DATA**  
**LT1395 / LT1396 / LT1397 LT1398 / LT1399 / LT6551**  
**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
SIDEBRAZE	56	0213	0213	56.00	0
SOIC/SOT/MSOP	302	9901	9940	623.00	0
	358			679.00	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	1,247	9838	0331	275.74	0
SSOP/TSSOP	295	9838	0225	19.63	0
QFN/DFN	50	0235	0235	16.80	0
	1,592			312.17	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	1,326	9838	0331	462.64	0
SSOP/TSSOP	300	9838	0225	30.00	0
QFN/DFN	50	0235	0235	50.10	0
	1,676			542.74	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	1,013	9838	0331	429.95	0
SSOP/TSSOP	300	9838	0225	30.00	0
	1,313			459.95	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 2.71 FITS

(3) Mean Time Between Failures in Years = 42,095

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