



RELIABILITY DATA
LT1394 / LT1671 / LT1711/12/13/14/15/19/20/21 / LT1886

6/17/04

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
SIDEBRAZE	77	9813	9813	38.38	0
SOIC/SOT/MSOP	900	9813	0131	839.51	0
SSOP/TSSOP	115	0014	0027	115.00	0
	1,092			992.88	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	1,171	9810	0316	301.62	0
SSOP/TSSOP	150	9949	0045	52.00	0
QFN/DFN	50	0347	0347	8.40	0
	1,371			362.02	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	2,199	9810	0316	767.90	0
SSOP/TSSOP	140	9949	0045	157.28	0
QFN/DFN	50	0347	0347	8.50	0
	2,389			933.68	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	948	9810	0316	429.50	0
SSOP/TSSOP	75	9949	0027	78.75	0
	1,023			508.25	0

(1) Assumes Activation Energy = 1.0 Electron Volts
(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 1.85 FITS
(3) Mean Time Between Failures in Years = 61,663
Note: 1 FIT = 1 Failure in One Billion Hours.