



**RELIABILITY DATA**

**LTC1261 / 1429 / 1430 / 1550 / 1551 / 3830 / 3831 / 3832**

**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	116	9726	9827	116.07	0
PLASTIC DIP	48	9526	9526	48.03	0
SOIC/SOT/MSOP	709	9426	0229	552.22	0
	873			716.32	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	5,253	9449	0234	307.23	0
SSOP/TSSOP	497	9724	0237	104.59	0
	5,750			411.82	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	50	0129	0129	5.00	0
SOIC/SOT/MSOP	4,905	9449	0241	589.70	0
SSOP/TSSOP	450	9724	0237	165.00	0
	5,405			759.70	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	2,558	9449	0234	562.90	0
SSOP/TSSOP	449	9615	0237	164.50	0
	3,007			727.40	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 16.52 FITS

(3) Mean Time Between Failures in Years = 6,905

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