



**RELIABILITY DATA**  
**LT1424 / LT1425 / LT1725 / LT1737 / LT3436**

**6/17/04**

**• 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
SOIC/SOT/MSOP	231	9640	0027	192.56	0
SSOP/TSSOP	154	0340	0421	154.00	0
	385			346.56	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	249	9816	9823	66.87	0
SOIC/SOT/MSOP	639	9725	0321	126.68	0
SSOP/TSSOP	148	0121	0332	49.73	0
	1,036			243.28	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	9816	9816	5.00	0
SOIC/SOT/MSOP	315	9912	0321	90.82	0
SSOP/TSSOP	201	0121	0332	176.80	0
	566			272.62	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	50	9751	9751	5.00	0
SOIC/SOT/MSOP	275	0045	0321	71.50	0
SSOP/TSSOP	50	0133	0133	25.00	0
	375			101.50	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 5.31 FITS

(3) Mean Time Between Failures in Years = 21,483

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