

RELIABILITY DATA

LT1370 / 1371 / 1372 / 1373 / 1375 / 1374 / 1376 / 1377 LT1576 / 1578

9/8/2000

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
PLASTIC DIP	309	9439	9708	420.13	0
SOIC/SOT/MSOP	1,004	9439	9908	971.99	0
DD PACK	136	9526	9807	338.16	0
TO-220	77	9740	9740	115.56	0
	1,526			1,845.84	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	445	9504	9720	31.51	0
SOIC/SOT/MSOP	4,180	9508	2021	309.33	0
SSOP/TSSOP	326	9642	9720	83.22	0
DD PACK	1,000	9530	2017	24.00	0
TO-220	50	9949	9949	1.20	0
	6,001			449.26	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	248	9504	9634	24.80	0
SOIC/SOT/MSOP	3,572	9508	2021	635.65	0
SSOP/TSSOP	194	9642	9706	175.20	0
DD PACK	1,850	9603	9933	185.00	0
TO-220	100	9644	9749	10.00	0
	5,964			1,030.65	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	150	9504	9544	15.00	0
SOIC/SOT/MSOP	2,190	9508	2013	475.20	0
SSOP/TSSOP	119	9706	9706	119.00	0
DD PACK	700	9627	2005	70.00	0
TO-220	200	9749	9953	20.00	0
	3,359			699.20	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 1.00 FITS

(3) Mean Time Between Failures in Years = 114,077

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