

RELIABILITY DATA

LT1521 / LT1528 / LT1529 / LT1579

8/21/2006

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
SOIC/SOT/MSOP	535	9526	9911	819.71	0
SSOP/TSSOP	39	9740	9740	19.44	0
DD PACK	50	0042	0042	8.40	0
TO-220	158	9526	9526	316.00	0
	782			1,163.55	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	46	9822	9822	11.83	0
SOIC/SOT/MSOP	5,348	9529	0606	715.69	0
SSOP/TSSOP	100	9847	0101	29.55	0
DD PACK	1,300	9541	0609	32.40	0
TO-220	690	9529	0412	45.18	0
	7,484			834.65	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	4,490	9529	0606	1,530.50	0
SSOP/TSSOP	75	0101	0117	40.80	0
DD PACK	4,954	9529	0609	594.49	0
TO-220	1,150	9552	0412	115.00	0
	10,669			2,280.79	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	3,390	9606	0606	979.51	0
DD PACK	1,248	9842	0609	124.80	0
TO-220	350	9917	0412	35.00	0
	4,988			1,139.31	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 1.58 FITS

(3) Mean Time Between Failures in Years = 72,201

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