

RELIABILITY REPORT



RELIABILITY DATA
LT1508 / LT1509 / LT1612 / LT1619

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
PLASTIC DIP	65	9539	9539	65.16	0
SOIC/SOT/MSOP	154	0001	0014	154.00	0
	219			219.16	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	225	9604	0510	9.00	0
SOIC/SOT/MSOP	501	9551	0409	85.42	0
	726			94.42	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	700	9604	0606	71.60	0
SOIC/SOT/MSOP	1,705	9551	0409	324.26	0
	2,405			395.86	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	0522	0522	5.00	0
SOIC/SOT/MSOP	349	9814	0409	115.72	0
	399			120.72	0

(1) Assumes Activation Energy = 1.0 Electron Volts
(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 8.39 FITS
(3) Mean Time Between Failures in Years = 13,597
Note: 1 FIT = 1 Failure in One Billion Hours.