

RELIABILITY REPORT



RELIABILITY DATA
LT1339 / LT1680 / LT1681 / LT3781

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	71	0040	0040	71.00	0
SOIC/SOT/MSOP	135	9640	9901	104.40	0
SSOP/TSSOP	77	0213	0213	129.28	0
	283			304.69	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	700	9641	0314	24.00	0
SOIC/SOT/MSOP	1,345	9642	0533	201.43	0
SSOP/TSSOP	50	0235	0235	17.10	0
	2,095			242.53	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	1,050	9641	0613	115.60	0
SOIC/SOT/MSOP	899	9642	0533	138.80	0
SSOP/TSSOP	49	0235	0235	49.05	0
	1,998			303.45	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	300	9641	9931	30.00	0
SOIC/SOT/MSOP	899	9642	0533	89.90	0
	1,199			119.90	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 6.04 FITS

(3) Mean Time Between Failures in Years = 18,887

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