

RELIABILITY REPORT



**RELIABILITY DATA
LTC1040 / 1041 / 1042**

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
CERDIP	809	8601	0051	845.53	1
PLASTIC DIP	322	8601	9651	430.70	0
	1,131			1,276.23	1

• 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	1,282	8648	0025	76.12	0
SOIC/SOT/MSOP	845	9124	0030	28.56	0
	2,127			104.68	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
CERDIP	15	8614	8614	0.15	0
PLASTIC DIP	680	9133	0615	68.00	0
SOIC/SOT/MSOP	440	9124	0030	44.00	0
	1,135			112.15	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	190	9133	9844	19.00	0
SOIC/SOT/MSOP	241	9124	9743	24.10	0
	431			43.10	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 20.47 FITS

(3) Mean Time Between Failures in Years = 5,573

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