

# RELIABILITY DATA

LT1039

8/21/2006

## • OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS <sup>(1)</sup> AT +125°C	NUMBER OF <sup>(2)</sup> FAILURES
CERDIP	516	8644	9809	1,158.58	0
SIDEBRAZE	104	9701	9714	104.25	0
PLASTIC DIP	136	8701	9523	447.10	0
	756			1,709.93	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	2,720	8704	0202	101.91	0
SOIC/SOT/MSOP	1,414	9210	9942	66.35	0
	4,134			168.26	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
CERDIP	147	8644	0009	13.35	0
PLASTIC DIP	1,345	9115	0608	136.75	0
SOIC/SOT/MSOP	300	9607	9852	30.00	0
	1,792			180.10	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
CERDIP	32	8710	0009	0.48	0
PLASTIC DIP	545	9115	9901	57.20	0
SOIC/SOT/MSOP	570	9225	9905	57.00	0
	1,147			114.68	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 1.08 FITS

(3) Mean Time Between Failures in Years = 105,627

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