

# RELIABILITY DATA

LT1026

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
PLASTIC DIP	450	9126	9520	929.99	0
	450			929.99	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	740	9126	9843	28.74	0
SOIC/SOT/MSOP	198	9441	9607	23.24	0
	938			51.98	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	445	9126	0421	48.10	0
SOIC/SOT/MSOP	99	9441	9607	9.90	0
	544			58.00	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	135	9126	9244	13.50	0
SOIC/SOT/MSOP	49	9441	9441	4.90	0
	184			18.40	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 1.98 FITS

(3) Mean Time Between Failures in Years = 57,615

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