

RELIABILITY REPORT



RELIABILITY DATA

LT1017 / LT1018

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	210	8548	9724	932.74	0
HERMETIC	645	8601	0052	2,260.90	0
PLASTIC DIP	617	9205	0305	2,544.89	0
	1,472			5,738.53	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	2,516	9109	0305	280.57	0
SOIC/SOT/MSOP	3,124	9120	0105	96.84	0
	5,640			377.41	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
HERMETIC	101	9109	9811	13.30	0
PLASTIC DIP	921	9205	0345	238.40	0
SOIC/SOT/MSOP	717	9120	0105	71.70	0
	1,739			323.40	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
HERMETIC	64	9109	9428	4.79	0
PLASTIC DIP	377	9205	0345	184.00	0
SOIC/SOT/MSOP	609	9120	0105	60.90	0
	1,050			249.69	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 0.32 FITS

(3) Mean Time Between Failures in Years = 356,491

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