

RELIABILITY DATA LT1011 / RH1011

3/5/2008

• 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	237	9707	0337	248.93	0
FLATPAK/LCC	240	9206	9721	253.57	0
HERMETIC	1,031	8601	0245	1,588.10	0
PLASTIC DIP	139	9124	9336	312.12	0
	1,647			2,402.72	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	400	9504	0209	10.80	0
SOIC/SOT/MSOP	500	9502	0017	12.00	0
	900			22.80	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	335	9406	0337	105.03	0
FLATPAK/LCC	71	9206	9721	7.10	0
HERMETIC	153	8605	0608	15.30	0
PLASTIC DIP	240	9124	0209	30.30	0
SOIC/SOT/MSOP	101	9348	0017	10.10	0
	900			167.83	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	345	9406	0234	98.03	0
FLATPAK/LCC	17	9721	9721	1.70	0
HERMETIC	83	8605	0608	2.69	0
PLASTIC DIP	230	9124	9810	32.43	0
SOIC/SOT/MSOP	147	9340	0017	14.70	0
	822			149.55	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 0.77 FITS

(3) Mean Time Between Failures in Years = 148,152

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