

RELIABILITY DATA

LT111 / LT311 / LM111 / LM311

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	275	8332	9104	1,028.02	0
HERMETIC	1,250	8414	9642	2,251.51	1
PLASTIC DIP	185	8350	9227	1,303.29	1
	1,710			4,582.82	2

• 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	736	9109	9618	60.08	0
	736			60.08	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	132	8330	0116	9.15	0
HERMETIC	230	8414	9105	14.50	0
PLASTIC DIP	136	9109	9452	15.73	0
	498			39.38	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	87	9322	0116	5.56	0
HERMETIC	60	8847	9105	4.73	0
PLASTIC DIP	145	9109	9602	15.90	0
	292			26.18	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 1.36 FITS

(3) Mean Time Between Failures in Years = 83,880

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