

RELIABILITY REPORT



**RELIABILITY DATA
LM101A / LM301**

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	281	9010	9709	250.51	0
FLATPAK/LCC	320	8907	9203	331.97	0
HERMETIC	828	8301	0330	1,368.17	0
	1,429			1,950.65	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	120	8427	9010	12.00	0
FLATPAK/LCC	80	8907	9203	8.00	0
HERMETIC	449	8328	0330	17.00	0
	649			37.00	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
CERDIP	60	8427	8930	0.90	0
HERMETIC	65	8949	0244	0.98	0
	125			1.88	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 0.94 FITS

(3) Mean Time Between Failures in Years = 121,359

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