

RELIABILITY DATA LTC1043 LTC6943

9/3/2010

• 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	360	9329	0041	360.14	0
SIDEBRAZE	961	8444	9735	696.77	0
PLASTIC DIP	225	8445	0217	261.05	0
	1,546			1,317.96	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	908	9844	0240	22.99	0
SOIC/SOT/MSOP	450	9551	0452	12.00	0
	1,358			34.99	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	127	9329	0122	87.70	0
SIDEBRAZE	492	8444	9418	45.75	0
PLASTIC DIP	2,192	8445	0913	858.30	0
SOIC/SOT/MSOP	979	9107	0836	100.06	0
	3,790			1,091.81	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	127	9329	0122	87.78	0
SIDEBRAZE	392	8444	9418	5.88	0
PLASTIC DIP	991	9241	0913	721.00	0
SOIC/SOT/MSOP	422	9107	0452	44.84	0
	1,932			859.50	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 8.96 FITS

(3) Mean Time Between Failures in Years = 12,747

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