



RELIABILITY DATA
LTC4266 / LTC4270 / LTC4274 / LTC4365

4/22/2011

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
SSOP / TSSOP	308	0848	1017	243.94	0
QFN / DFN	77	1047	1047	77.00	0
	385			320.94	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
SSOP / TSSOP	77	0829	0829	25.87	0
	77			25.87	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
SSOP / TSSOP	223	0806	0838	187.50	0
	223			187.50	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
SSOP / TSSOP	153	0829	0838	153.00	0
	153			153.00	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 36.78 FITS

(3) Mean Time Between Failures in Years = 3,104

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