

# RELIABILITY DATA LTC6801 / LTC6802 / LTC6803 / LTC6804 / LTC6820 6/12/2013

#### • OPERATING LIFE TEST

PACKAGE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICF HOURS <sup>(1)</sup> AT +125°C	NUMBER OF <sup>(2)</sup> FAILURES
SSOP/TSSOP	4,081	0831	1304	4,109.23	0
	4,081			4,109.23	0

## • HIGHLY ACCELERATED STRESS TEST AT +131°C/85%RH

PACKAGE TYPE	OIZL	DATE CODE	NEWEST DATE CODE	HOURS <sup>(4)</sup> AT +85°C	NUMBER OF FAILURES
SSOP/TSSOP	1,396	0831	1252	3,313.92	0
	1,396			3,313.92	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	10,046	0816	1123	431.00	0
QFN/DFN	50	1013	1013	1.00	0
	10,096			432.00	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	3,621	0904	1114	1,118.00	0
QFN/DFN	50	1013	1013	5.00	0
	3,671			1,123.00	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
SSOP/TSSOP	10,903	0904	1146	1,614.00	0
QFN/DFN	49	1013	1013	4.00	0
	302			306.00	0

- (1) Assumes Activation Energy = 0.7 Electron Volts
- (2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 2.87 FITS
- (3) Mean Time Between Failures in Years = 39,743
- (4) Assumes 20X Acceleration from 85°C to +131°C

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

Form: 00-03-6209B. R525