

# RELIABILITY DATA LTC4151 / LTC6101 / LTC6102 / LTC6103 / LTC6104

8/13/2009

## • OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS <sup>(1)</sup> AT +125°C	NUMBER OF <sup>(2)</sup> FAILURES
SOIC/SOT/MSOP	505	0502	0716	496.82	0
QFN/DFN	154	0719	0837	154.05	0
	659			650.86	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
SOIC/SOT/MSOP	10,427	0510	0905	396.46	0
QFN/DFN	148	0737	0906	3.55	0
	10,575			400.01	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
SOIC/SOT/MSOP	3,125	0501	0905	678.10	0
QFN/DFN	97	0737	0738	9.70	0
	3,222			687.80	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
SOIC/SOT/MSOP	5,638	0510	0913	905.44	0
QFN/DFN	95	0737	0738	9.50	0
	5,733			914.94	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 18.18 FITS

(3) Mean Time Between Failures in Years = 6,275

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