

RELIABILITY DATA

LTC6078 / LTC6079 / LTC6081 / LTC6082 / LTC6084 / LTC6085 / LTC6087 / LTC6088 / LTC6702

12/30/2010

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
PLASTIC DIP	77	0533	0533	77.00	0
SOIC/SOT/MSOP	462	0710	0747	423.50	0
	539			500.50	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	375	0722	0850	27.91	0
QFN/DFN	150	0611	0815	3.60	0
	525			31.51	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	50	0850	0850	5.00	0
QFN/DFN	196	0611	0824	19.60	0
	246			24.60	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	50	0850	0850	5.00	0
QFN/DFN	147	0611	0815	14.70	0
	197			19.70	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 23.58 FITS

(3) Mean Time Between Failures in Years = 4,840

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