

# RELIABILITY REPORT



**RELIABILITY DATA**  
**LTC1518 / 19 / 20 / 35 / LTC1685 / 1686 / 1687 / 1694**

**8/21/2006**

**• 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
SIDEBRAZE SOIC/SOT/MSOP	65	0040	0040	65.00	0
	593	9601	0108	517.59	0
	658			582.59	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	5,915	9613	0617	561.03	0
	5,915			561.03	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	4,932	9641	0612	1,232.89	0
	4,932			1,232.89	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	5,292	9613	0621	1,459.97	0
	5,292			1,459.97	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 20.32 FITS

(3) Mean Time Between Failures in Years = 5,614

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