

# RELIABILITY REPORT



**RELIABILITY DATA  
LTC1262 / LTC1263**

**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	79	9613	9613	131.74	0
PLASTIC DIP	80	9413	9413	133.41	0
SOIC/SOT/MSOP	50	9828	9828	28.02	0
	209			293.17	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
PLASTIC DIP	250	9431	9803	7.95	0
SOIC/SOT/MSOP	899	9431	9940	39.65	0
	1,149			47.60	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
PLASTIC DIP	100	9702	9803	10.15	0
SOIC/SOT/MSOP	395	9410	9828	39.50	0
	495			49.65	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
PLASTIC DIP	50	9803	9803	5.00	0
SOIC/SOT/MSOP	250	9641	9952	25.00	0
	300			30.00	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 40.37 FITS

(3) Mean Time Between Failures in Years = 2,826

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