

**RELIABILITY DATA
LTC1564 / 1565 / 1566**

10/26/2003

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
SOIC/SOT/MSOP	154	9952	0040	154.00	0
SSOP/TSSOP	143	0114	0114	143.00	0
	297			297.00	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	250	0004	0104	85.10	0
SSOP/TSSOP	198	0138	0212	66.53	0
	448			151.63	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	150	0004	0101	155.95	0
SSOP/TSSOP	100	0138	0143	104.80	0
	250			260.75	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	100	0004	0004	106.00	0
SSOP/TSSOP	100	0210	0212	102.50	0
	200			208.50	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 39.85 FITS

(3) Mean Time Between Failures in Years = 2,863

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