

**RELIABILITY DATA
LT1175
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	225	9513	9826	270.87	0
	225			270.87	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	50	9603	9603	1.20	0
SOIC/SOT/MSOP	428	9615	0129	25.52	0
DD PACK	425	9638	0027	10.20	0
TO-220	350	9534	0114	9.68	0
	1,253			46.60	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
SOIC/SOT/MSOP	350	9616	0129	35.00	0
DD PACK	1,900	9631	0238	190.00	0
TO-220	300	9534	0122	35.00	0
	2,550			260.00	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	250	9906	0129	25.00	0
DD PACK	300	9631	0027	30.00	0
TO-220	200	9611	0114	20.00	0
	750			75.00	0

(1) Assumes Activation Energy = 1.0 Electron Volts
 (2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 6.79 FITS
 (3) Mean Time Between Failures in Years = 16,801
 Note: 1 FIT = 1 Failure in One Billion Hours.