

## RELIABILITY DATA

**LT1005**

**10/26/2003**

**• 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
TO-220	157 157	8301	8331	1,045.21 1,045.21	0 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
TO-220	1,150 1,150	9328	0306	34.80 34.80	0 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
TO-3	15	8341	8341	1.50	0
TO-220	1,199 1,214	9328	0306	129.80 131.30	0 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
TO-3	15	8341	8341	0.23	0
TO-220	850 865	9803	0306	85.00 85.23	0 0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 1.76 FITS

(3) Mean Time Between Failures in Years = 64,817

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