



**RELIABILITY DATA
LT1033**

4/30/2003

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
TO-3	234 234	9309	9323	942.59 942.59	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	701	9149	9845	16.80	0
TO-3P	300 1,001	9306	0237	7.20 24.00	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	20	9232	9232	2.00	0
TO-220	900	9242	0239	94.80	0
TO-3P	112 1,032	9535	0237	11.20 108.00	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	20	9232	9232	0.30	0
TO-220	250	9242	9845	25.00	0
TO-3P	62 332	0117	0237	6.20 31.50	0 0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 1.95 FITS

(3) Mean Time Between Failures in Years = 58,501

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