

# RELIABILITY REPORT



**RELIABILITY DATA**  
**LT1033 / LT1035 / LT1036**

**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
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	1,885	9136	0407	77.88	0
TO-3P	350 2,235	9306	0332	10.80 88.68	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
HERMETIC	15	8853	8853	1.50	0
TO-3	20	9232	9232	2.00	0
TO-220	1,883	9115	0407	255.06	0
TO-3P	162 2,080	9535	0332	16.20 274.76	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	1,338	8853	0407	279.49	0
TO-3P	112 1,470	0117	0332	11.20 290.99	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.