

RELIABILITY DATA LT1033 / LT1035 / LT1036

8/21/2006

• 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	9309	9323	942.59	0
	234			942.59	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	9306	0332	10.80	0
	2,235			88.68	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	9535	0332	16.20	0
	2,080			274.76	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	0117	0332	11.20	0
	1,470			290.99	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.