

RELIABILITY DATA

LT1526 / LT1527 / LT3526 / LT3527

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
CERDIP	115	8601	8652	323.51	0
PLASTIC DIP	45	9113	9113	48.38	0
	160			371.89	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	1,240	8418	9851	251.02	0
	1,240			251.02	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
CERDIP	217	8609	9402	50.70	0
PLASTIC DIP	215	8426	9851	48.95	0
	432			99.65	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
CERDIP	217	8609	9402	40.60	0
PLASTIC DIP	164	8426	9851	33.90	0
	381			74.50	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 4.95 FITS

(3) Mean Time Between Failures in Years = 23,046

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