

# RELIABILITY DATA

## LT1640 / LT1641 / LT4250

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
PLASTIC DIP	50	0040	0040	50.00	0
SOIC/SOT/MSOP	454	9813	0213	214.69	0
	504			264.69	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	704	9821	0205	67.34	0
SOIC/SOT/MSOP	4,206	9821	0409	579.34	0
	4,910			646.69	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
PLASTIC DIP	554	9830	0205	214.60	0
SOIC/SOT/MSOP	2,111	9830	0409	979.61	0
	2,665			1,194.21	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
PLASTIC DIP	254	0110	0205	164.30	0
SOIC/SOT/MSOP	1,229	9830	0409	664.80	0
	1,483			829.10	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 6.95 FITS

(3) Mean Time Between Failures in Years = 16,414

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