

RELIABILITY REPORT





NOW PART OF



Reliability Data Report

Product Family R564

LTC3376 \ LTC3634 \ LTC3636 \ LTC7150

Reliability Data Report

Report Number: R564

Report generated on: Fri Apr 10 18:43:37 PDT 2020

OPERATING LIFE TEST					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS (+125°C)¹	No. of FAILURES ^{2, 3}
QFN/DFN	306	1033	1306	661	0
Totals	306	-	-	661	0

PRESSURE COOKER TEST AT 15 PSIG , +121 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS	No. of FAILURES
SSOP/TSSOP	198	1435	1503	4	0
QFN/DFN	100	1648	1648	2	0
Totals	298	-	-	6	0

TEMP CYCLE FROM -65 TO 150 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	No. of FAILURES
SSOP/TSSOP	198	1435	1503	19	0
QFN/DFN	100	1648	1648	10	0
Totals	298	-	-	29	0

THERMAL SHOCK FROM -65 TO 150 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	No. of FAILURES
SSOP/TSSOP	200	1435	1503	20	0
QFN/DFN	98	1648	1648	9	0
Totals	298	-	-	29	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =17.93 FITS

(3) Mean Time Between Failure in Years = 6368.15

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

Note 2: HAST, Temp Cycle & Thermal Shock are subjected to J-STD-020 MSL1 Preconditioning