

RELIABILITY REPORT





NOW PART OF



Reliability Data Report

Product Family R521

LTC2801 / LTC2802 / LTC2803 / LTC2804 /
LTC2850 / LTC2851 / LTC2852 / LTC2854 /
LTC2855 / LTC2856 / LTC2857 / LTC2858 /
LTC2859 / LTC2861 / LTC2870 / LTC2871 /
LTC2872 / LTC2873

Reliability Data Report

Report Number: R521

Report generated on: Mon Mar 05 10:56:27 PST 2018

OPERATING LIFE TEST					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS (+125°C) ¹	No. of FAILURES _{2,3}
SSOP/TSSOP	792	0630	1532	651	0
SOIC/MSOP	160	0630	0710	160	0
QFN/DFN	8288	1102	1610	770	0
Totals	9,240	-	-	1,581	0

HIGHLY ACCELERATED STRESS TEST AT +130 DEG C / 85% RH					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS (+85°C) ⁴	No. of FAILURES
SOIC/MSOP	457	1541	1705	877	0
Totals	457	-	-	877	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
QFN/DFN	3595	0550	1641	86	0
SSOP/TSSOP	1198	0827	1704	35	0
SOIC/MSOP	1249	0937	1704	29	0
Totals	6,042	-	-	150	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
QFN/DFN	3535	0550	1641	436	0
SSOP/TSSOP	1198	0526	1704	159	0
SOIC/MSOP	1250	0937	1704	125	0
Totals	5,983	-	-	720	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
QFN/DFN	3590	0550	1641	359	0
SSOP/TSSOP	1095	0917	1704	109	0
SOIC/MSOP	1245	0937	1704	124	0
Totals	5,930	-	-	592	0

(1) Assumes Activation Energy = 0.7 Electron Volts
 (2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =7.49 FITS
 (3) Mean Time Between Failure in Years = 15231.54
 (4) Assumes 20X Acceleration from 85 °C to +130 °C
 Note 1: 1 FIT = 1 Failure in One Billion Hours.
 Note 2: HAST, Temp Cycle & Thermal Shock are subjected to J-STD-020 MSL Preconditioning

Reliability Data Report

Report Number: R521

Report generated on: Mon Mar 05 10:56:27 PST 2018

HIGH TEMPERATURE BAKE AT 150 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS	No. of FAILURES
QFN/DFN	598	0913	1632	548	0
Totals	598	-	-	548	0