

RELIABILITY REPORT





NOW PART OF



Reliability Data Report

Product Family R561

LTC6268 \ LTC6269 \ LTC6409 \ LTC6419 \
LTC6430 \ LTC6431 \ LTC6433 \ LTC6752 \
LTC6754

Reliability Data Report

Report Number: R561

Report generated on: Tue Jan 30 17:30:09 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}
QFN/DFN	539	0937	1540	539	0
SOT	77	1350	1350	77	0
SOIC/MSOP	154	1125	1409	154	0
Totals	770	-	-	770	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
QFN/DFN	900	1507	1703	2023	0
SOIC/MSOP	155	1448	1448	595	0
Totals	1,055	-	-	2,618	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	1388	1021	1703	143	0
Totals	1,388	-	-	143	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	2267	0938	1703	1027	0
Totals	2,267	-	-	1,027	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	1282	0938	1701	617	0
Totals	1,282	-	-	617	0

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	529	0938	1703	529	0
Totals	529	-	-	529	0

(1) Assumes Activation Energy = 0.7 Electron Volts
 (2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =15.39 FITS
 (3) Mean Time Between Failure in Years = 7418.27
 (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: R561

Report generated on: Tue Jan 30 17:30:09 PST 2018

HIGH TEMPERATURE BAKE AT 175 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS	No. of FAILURES
QFN/DFN	431	0938	1614	431	0
Totals	431	-	-	431	0