



Reliability Data Report

Product Family R531

LT1965 / LT3007 / LT3008 / LT3009 /
LT3015 / LT3022 / LT3029 / LT3030 /
LT3042 / LT3048 / LT3050 / LT3055 /
LT3060 / LT3061 / LT3062 / LT3063 /
LT3065 / LT3066 / LT3080 / LT3081 /
LT3082 / LT3083 / LT3085 / LT3086 /
LT3088 / LT3089 / LT3090 / LT3091 /
LT3092 / LT3095

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Report Number: R531

Report generated on: Mon Jan 04 10:16:44 PST 2016

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	853	0713	1446	1303	0
SSOP/TSSOP	154	0941	1245	154	0
TO-3	231	1034	1034	616	0
SOIC/MSOP	651	0813	1438	2403	0
SOT	154	0908	1421	862	0
Totals	2,043	-	-	5,338	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
SOT	155	1332	1414	334	0
Totals	155	-	-	334	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	4563	0552	1423	807	0
SSOP/TSSOP	709	0550	1324	128	0
SOIC/MSOP	2624	0739	1412	293	0
TO-220	1192	0813	1343	209	0
SOT	7841	0730	1410	454	0
Totals	16,929	-	-	1,891	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	4064	0552	1416	1778	0
SSOP/TSSOP	605	0550	1324	335	0
SOIC/MSOP	3006	0739	1412	1227	0
TO-220	802	1045	1343	596	0
SOT	4190	0740	1410	884	0
Totals	12,667	-	-	4,820	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =0.34 FITS

(3) Mean Time Between Failure in Years = 332403.09

(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

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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	3687	0552	1416	1660	0
SSOP/TSSOP	555	0550	1324	332	0
SOIC/MSOP	2827	0739	1412	1138	0
TO-220	559	0813	1343	454	0
SOT	3916	0740	1410	715	0
Totals	11,544	-	-	4,299	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	758	0739	1414	683	0
SOIC/MSOP	535	0739	1033	535	0
SOT	154	0811	0811	77	0
Totals	1,447	-	-	1,295	0

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	908	0552	1324	1550	0
SSOP/TSSOP	229	1227	1243	230	0
SOIC/MSOP	535	0739	1345	510	0
TO-220	150	1247	1247	150	0
SOT	395	0836	1401	395	0
Totals	2,217	-	-	2,835	0