



Reliability Data Report

Product Family R531

LT1965 / LT3008 / LT3009 / LT3015 /
LT3022 / LT3029 / LT3050 / LT3060 /
LT3080 / LT3082 / LT3083 / LT3085 /
LT3092

Reliability Data Report

Report Number: R531

Report generated on: Tue Oct 16 11:27:21 PDT 2012

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	0713	0943	539	0
SSOP/TSSOP	77	0941	0941	77	0
TO-3	231	1034	1034	616	0
SOIC/SOT/MSOP	266	0813	1029	248	0
Totals	1,113	-	-	1,480	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	2190	0739	1118	447	0
SSOP/TSSOP	49	1045	1045	1	0
SOIC/SOT/MSOP	3900	0739	1120	296	0
TO-220	100	1045	1115	2	0
Totals	6,239	-	-	746	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	1923	0739	1118	1023	0
SSOP/TSSOP	100	1045	1046	10	0
SOIC/SOT/MSOP	1962	0739	1120	888	0
TO-220	100	1045	1115	10	0
Totals	4,085	-	-	1,931	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	1798	0739	1118	1026	0
SSOP/TSSOP	100	1045	1046	10	0
SOIC/SOT/MSOP	2184	0739	1120	941	0
TO-220	99	1045	1115	9	0
Totals	4,181	-	-	1,986	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	358	0739	0820	358	0
SOIC/SOT/MSOP	535	0739	1033	535	0
Totals	893	-	-	893	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =1.24 FITS

(3) Mean Time Between Failure in Years = 92161.22

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

Note 2: HAST, Temp Cycle & Thermal Shock are subjected to J-STD-020 MSL 3/4 Preconditioning

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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	611	0552	0943	1253	0
SOIC/SOT/MSOP	385	0739	0943	385	0
Totals	996	-	-	1,638	0