

Reliability Data Report Product Family R386

LT1500/01/06/07 LT1533/34 LT1611/13 LT1761/62/63/64/65 LT1959 LT1962/63/64 LT3012/13/14 LT3021/27/28/32 LT3150

Reliability Data Report Report Number: R386 Report generated on: Fri Aug 11 13:52:35 PDT 2017

OPERATING L	IFE IESI				
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE	(+125°C) ¹	2,3
SIDEBRAZE	30	9601	9601	30	0
DD PAK	50	0037	0037	8	0
QFN/DFN	231	0210	0502	163	0
SSOP/TSSOP	231	0502	0650	585	0
SOT	915	9827	1643	813	0
SOIC/MSOP	2613	9601	1712	1255	0
TO-220	244	9940	1317	97	0
Totals	4,314	-	-	2,951	0
HIGHLY ACCE	LERATED STR	ESS TEST AT +	130 DEG C / 85%	% RH	
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE	(+85°C) ⁴	
SOT	437	9943	0620	2543	0
SOIC/MSOP	140	1450	1647	268	0
Totals	577	-	-	2,811	0
PRESSURE CO	OOKER TEST A	T 15 PSIG , +12	1 DEG C		
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
TAGRAGE TITE	OAMI LE OIZE			IN DEVICE TING	No. of I AILONLO
DD D444	10710	CODE	CODE	705	
DD PAK	13713	9934	1715	765 818	0
QFN/DFN SSOP/TSSOP	14113 12402	0000 9740	1714 1711	669	0
PLASTIC DIP	50	9607	9607	1	0
SOT	46336	9829	1716	3711	0
SOIC/MSOP	16930	9610	1712	1025	0
TO-220	3463	0121	1537	235	0
Totals	107,007	-	-	7,224	0
TEMP CYCLE		•	•		•
I EIVIP GYGLE	FROM -65 TO 1	50 DEG C			
	FROM -65 TO 1		NEWFOT DATE	K DEVICE	No of FAILURES
PACKAGE TYPE	FROM -65 TO 1 SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	CODE	CYCLES	
PACKAGE TYPE DD PAK	SAMPLE SIZE	OLDEST DATE CODE 9838	CODE 1715	CYCLES 3696	0
PACKAGE TYPE DD PAK QFN/DFN	27651 15832	OLDEST DATE CODE 9838 0509	CODE 1715 1714	CYCLES 3696 2823	0
DD PAK QFN/DFN SSOP/TSSOP	27651 15832 12306	OLDEST DATE CODE 9838 0509 9740	1715 1714 1711	CYCLES 3696 2823 2767	0 0 0
DD PAK QFN/DFN SSOP/TSSOP PLASTIC DIP	27651 15832 12306 50	OLDEST DATE CODE 9838 0509 9740 9607	CODE 1715 1714 1711 9607	CYCLES 3696 2823 2767 5	0 0 0 0
DD PAK QFN/DFN SSOP/TSSOP PLASTIC DIP SOT	27651 15832 12306 50 36857	OLDEST DATE CODE 9838 0509 9740 9607 9829	1715 1714 1711 9607 1716	2767 5 11264	0 0 0
DD PAK QFN/DFN SSOP/TSSOP PLASTIC DIP	27651 15832 12306 50	OLDEST DATE CODE 9838 0509 9740 9607	CODE 1715 1714 1711 9607	CYCLES 3696 2823 2767 5	0 0 0 0

(1) Assumes Activation Energy = 1.0 Electron Volts
(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =0.62 FITS
(3) Mean Time Between Failure in Years = 183762
(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: R386 Report generated on: Fri Aug 11 13:52:35 PDT 2017

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
TAGINGE THE	O/MIII EE OIEE	CODE	CODE	CYCLES	No. of Francisco
SOT	50	0914	0914	5	0
SOIC/MSOP	49	0913	0913	4	0
Totals	99	-	-	9	0
	OCK FROM -65	TO 150 DEG C			ı
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
PACKAGE TIPE	SAIVIPLE SIZE				NO. OF FAILURES
		CODE	CODE	CYCLES	
DD PAK	12414	9934	1715	2041	0
QFN/DFN	16304	0509	1714	2875	0
SSOP/TSSOP	12524	0210	1711	2077	0
PLASTIC DIP	50	9607	9607	5	0
SOT	35745	9833	1716	8532	0
SOIC/MSOP	16641	9605	1709	2355	0
TO-220	2930	0121	1537	549	0
Totals	96,608	-	-	18,434	0
HIGH TEMPER	ATURE BAKE	AT 150 DEG C			
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE		
QFN/DFN	2396	0650	1640	2858	0
SOT	1195	0829	1608	1070	0
SOIC/MSOP	98	1440	1450	98	0
Totals	3,689	=	-	4,026	0
HIGH TEMPER	ATURE BAKE	AT 175 DEG C			
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE		
DD PAK	1031	0903	1625	961	0
QFN/DFN	1077	0650	0709	1038	0
SSOP/TSSOP	350	0824	0918	175	0
SOT	3014	0822	1643	2865	0
SOIC/MSOP	852	0841	1625	528	0
TO-220	350	1215	1513	343	0
	000	12.10	1010	0.10	