

Reliability Data Report Product Family R526

LTC3103 / LTC3104 / LTC3112 / LTC3115 / LTC3260 /
LTC3261 / LTC3388 / LTC3582 / LTC3600 / LTC3602 /
LTC3603 / LTC3618 / LTC3630 / LTC3631 / LTC3632 /
LTC3642 / LTC3775 / LTC3676 / LTC3786 / LTC3787 /
LTC3788 / LTC3789 / LTC3829 / LTC3833 / LTC3838 /
LTC3839 / LTC3850 / LTC3851 / LTC3852 / LTC3853 /
LTC3854 / LTC3855 / LTC3856 / LTC3857 / LTC3585 /
LTC3859 / LTC3862 / LTC3865 / LTC3866 / LTC3867 /
LTC3868 / LTC3869 / LTC3876 / LTC3878 / LTC3879 /
LTC3880 / LTC3883 / LTC3890 / LTC3891 / LTC4000 /
LTC4010



Reliability Data Report Report Number: R526 Report generated on: Wed Oct 03 18:23:47 PDT 2012

OPERATING L	IFE TEST				1
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE	(+125°C) ¹	2,3
SSOP/TSSOP	2806	0645	1148	3146	0
SOIC/SOT/MSOP	462	0816	1143	693	0
QFN/DFN	2378	0816	1151	2895	0
Totals	5,646	-	-	6,734	0
HIGHLY ACCE	LERATED STR	ESS TEST AT +	131 DEG C / 85%	% RH	
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE	(+85°C) ⁴	
SSOP/TSSOP	3220	0911	1124	3960	0
SOIC/SOT/MSOP	229	1040	1048	547	0
QFN/DFN	132	1043	1053	233	0
Totals	3,581	-	-	4,740	0
PRESSURE CO	OKER TEST A	T 15 PSIG , +12	1 DEG C		
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
FACRAGE TIFE	SAIVIF LL SIZL	CODE	CODE	K DEVICE TIKS	No. of TAILORES
SSOP/TSSOP	14888	0652	1124	775	0
SOIC/SOT/MSOP	2517	0908	1118	333	0
QFN/DFN	9153	0649	1124	370	0
Totals	26,558	-	-	1,478	0
TEMP CYCLE	•		I	1,170	ı v
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
TACKACE THE	OAIIII LL OIZL				No. of I AILONEO
CCOD/TCCOD	45077	CODE	CODE	CYCLES	0
SSOP/TSSOP SOIC/SOT/MSOP	15977 2504	0652 0908	1146 1118	3191	0
QFN/DFN	9189			1157	0
Totals	27,670	0639	1211	1984 6,332	0
	•		-	0,332	
THERMAL SHO	OCK FROM -65	TO 150 DEG C			
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
		CODE	CODE	CYCLES	
QFN/DFN	9579	0652	1211	1938	0
SSOP/TSSOP	14591	0652	1123	2906	0
SOIC/SOT/MSOP	2477	0908	1118	1089	0

(1) Assumes Activation Energy = 0.7 Electron Volts
(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =0.27 FITS
(3) Mean Time Between Failure in Years = 419333.53
(4) Assumes 20X Acceleration from 85 °C to +131 °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 3/4 Preconditioning



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PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE		
SSOP/TSSOP	923	0812	1048	872	0
SOIC/SOT/MSOP	458	0908	1040	438	0
QFN/DFN	721	0807	1101	605	0
UTQFN	231	0726	0726	115	0
Totals	2,333	-	-	2,030	0
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
			NEWEST DATE	K DEVICE HRS	No. of FAILURES
		OLDEST DATE		K DEVICE HRS	No. of FAILURES
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	CODE		
SSOP/TSSOP	SAMPLE SIZE 998	OLDEST DATE CODE 0812	CODE 1018	911	0
SSOP/TSSOP SOIC/SOT/MSOP	998 372	OLDEST DATE CODE 0812 0905	CODE 1018 1040	911 436	0