



## Reliability Data Report Product Family R547

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LTC4266 / LTC4270 / LTC4274 /  
LTC4359 / LTC4364 / LTC4365 /  
LTC4366

# Reliability Data Report

## Report Number: R547

Report generated on: Wed Oct 31 11:44:12 PDT 2012

OPERATING LIFE TEST					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS (+125°C) <sup>1</sup>	No. of FAILURES 2,3
SSOP/TSSOP	231	0848	1150	231	0
QFN/DFN	77	1047	1047	77	0
Totals	308	-	-	308	0

HIGHLY ACCELERATED STRESS TEST AT +131 DEG C / 85% RH					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS (+85°C) <sup>4</sup>	No. of FAILURES
SSOP/TSSOP	51	1041	1041	144	0
Totals	51	-	-	144	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
SSOP/TSSOP	77	0829	0829	25	0
Totals	77	-	-	25	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
SSOP/TSSOP	223	0806	0838	187	0
SOIC/SOT/MSOP	50	1152	1152	50	0
Totals	273	-	-	237	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
SSOP/TSSOP	153	0829	0838	153	0
SOIC/SOT/MSOP	50	1152	1152	50	0
Totals	203	-	-	203	0

HIGH TEMPERATURE BAKE AT 150 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS	No. of FAILURES
SSOP/TSSOP	100	0829	0838	100	0
Totals	100	-	-	100	0

- (1) Assumes Activation Energy = 0.7 Electron Volts  
 (2) Failure Rate Equivalent to +55 °C, 60% Confidence Level = 5.95 FITS  
 (3) Mean Time Between Failure in Years = 19179.5  
 (4) Assumes 20X Acceleration from 85 °C to +131 °C  
 Note 1: 1 FIT = 1 Failure in One Billion Hours.  
 Note 2: HAST, PCT, Temp Cycle & Thermal Shock are subjected to Preconditioning per J-STD-020.

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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
SSOP/TSSOP	95	0829	0838	95	0
Totals	95	-	-	95	0