

# RELIABILITY REPORT





NOW PART OF



# Reliability Data Report

## Product Family R357

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LT1461 / LT1634

# Reliability Data Report

## Report Number: R357

Report generated on: Mon Mar 05 10:48:50 PST 2018

<b>OPERATING LIFE TEST</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE HRS (+125°C)<sup>1</sup></b>	<b>No. of FAILURES <sub>2,3</sub></b>
SOIC/MSOP	453	9714	1028	442	0
TO-92	100	9908	9924	175	0
Totals	553	-	-	617	0
<b>HIGHLY ACCELERATED STRESS TEST AT +130 DEG C / 85% RH</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE HRS (+85°C)<sup>4</sup></b>	<b>No. of FAILURES</b>
SOIC/MSOP	197	1251	1601	378	0
Totals	197	-	-	378	0
<b>PRESSURE COOKER TEST AT 15 PSIG , +121 DEG C</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE HRS</b>	<b>No. of FAILURES</b>
SOIC/MSOP	29944	9726	1712	1611	0
TO-92	2099	9733	1617	64	0
Totals	32,043	-	-	1,675	0
<b>TEMP CYCLE FROM -65 TO 150 DEG C</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE CYCLES</b>	<b>No. of FAILURES</b>
SOIC/MSOP	26320	9726	1712	3578	0
TO-92	1650	9746	1617	165	0
Totals	27,970	-	-	3,743	0
<b>THERMAL SHOCK FROM -65 TO 150 DEG C</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE CYCLES</b>	<b>No. of FAILURES</b>
SOIC/MSOP	21187	9744	1712	2739	0
TO-92	1104	9740	1617	110	0
Totals	22,291	-	-	2,849	0
<b>HIGH TEMPERATURE BAKE AT 150 DEG C</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE HRS</b>	<b>No. of FAILURES</b>
SOIC/MSOP	902	0804	0906	892	0
Totals	902	-	-	892	0

(1) Assumes Activation Energy = 1.0 Electron Volts  
(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =2.97 FITS  
(3) Mean Time Between Failure in Years = 38421.27  
(4) Assumes 20X Acceleration from 85 °C to +130 °C  
Note: 1 FIT = 1 Failure in One Billion Hours.  
Note 2: HAST, Temp Cycle & Thermal Shock are subjected to J-STD-020 MSL1 Preconditioning