

RELIABILITY REPORT





Reliability Data Report

Product Family R290

LT1351 \ LT1352 \ LT1353 \
LT1354 \ LT1355 \ LT1356 \
LT1357 \ LT1358 \ LT1359 \
LT1360 \ LT1361 \ LT1362 \
LT1363 \ LT1364 \ LT1365 \
LT1366 \ LT1367 \ LT1368 \
LT1369 \ LT1630 \ LT1631 \
LT1632 \ LT1633 \ LT1995

RELIABILITY DATA

10/30/2020

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
CERDIP	500	9513	9640	312.5	0
PLASTIC DIP	1,695	9312	1347	477.6	0
SOIC/SOT/MSOP	3,000	9313	1410	484.2	0
	5,195			1,274.3	0

• HIGHLY ACCELERATED STRESS TEST AT +131°C/85%RH

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽⁴⁾ AT +85°C	NUMBER OF FAILURES
PLASTIC DIP	196	9542	0032	22.9	0
SOIC/SOT/MSOP	3,708	9527	1639	254.5	0
	3,904			277.4	0

• PRESSURE COOKER TEST AT 15 PSIG, +121°C

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS	NUMBER OF FAILURES
PLASTIC DIP	3,323	9338	1320	156.6	0
SOIC/SOT/MSOP	20,680	9335	1320	1,019.3	0
	24,003			1,175.9	0

• TEMP CYCLE FROM -65°C to +150°C

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES
CERDIP	17	0002	0002	1.70	0
PLASTIC DIP	2,025	9405	1320	400.5	0
SOIC/SOT/MSOP	6,323	9417	1320	1,826.6	0
	8,365			2,228.8	0

• THERMAL SHOCK FROM -65°C to +150°C

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES
CERDIP	17	0002	0002	0.26	0
PLASTIC DIP	999	9405	1320	299.4	0
SOIC/SOT/MSOP	4,026	9403	1320	951.0	0
	5,042			1,250.66	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 1.43 FITS

(3) Mean Time Between Failures in Years = 79,857

(4) Assumes 20X Acceleration from 85°C to +131°C

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