



4/17/2012

RELIABILITY MONITOR REPORT
FOR

SFN Package

MAXIM Integrated Products

120 San Gabriel Dr.
Sunnyvale, CA 94086

This Report was prepared by
Maxim Reliability Engineering

Summary:

The data in the tables that follow was generated as the result of an on-going Package Reliability Monitor. The specific assemblies included in this package monitor are:

ASSY SITE	PINS PACKAGE
UTL	2 SFN (Pb-Free)

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 27143 FITS: 4.2

The parameters used to calculate this failure rate are as follows:

Cf: 60% Ea: 0.7 Tu: 25 °C

The reliability data follows. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. The reliability data section includes the latest data available. This report covers data between 4/1/2011 and 3/31/2012.

Assembly Information:

Package Type: SFN (Pb-Free)
Date Code Range: 1122 to 1124

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP REVERSE BIAS	1122	DSQ3301-K04+T	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP REVERSE BIAS	1123	DSQ3301-K04+T	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP REVERSE BIAS	1124	DSQ3301-K04+T	125C, 5.5 VOLTS	1000 HRS	77	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1122	DSQ3301-K04+T	150C	1000 HRS	77	0	
STORAGE LIFE	1123	DSQ3301-K04+T	150C	1000 HRS	77	0	
STORAGE LIFE	1124	DSQ3301-K04+T	150C	1000 HRS	77	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1122	DSQ3301-K04+T	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1123	DSQ3301-K04+T	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1124	DSQ3301-K04+T	-55C TO 125C	1000 CYS	77	0	
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
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BIASED MOISTURE	1122	DSQ3301-K04+T	85/85, 5.5 VOLTS	1000 HRS	77	0
BIASED MOISTURE	1123	DSQ3301-K04+T	85/85, 5.5 VOLTS	1000 HRS	77	0
BIASED MOISTURE	1124	DSQ3301-K04+T	85/85, 5.5 VOLTS	1000 HRS	77	0
				Total:		0

FAILURE RATE: MTTF (YRS): 27143 FITS: 4.2