

4/17/2013



RELIABILITY MONITOR REPORT
FOR

SFN Package

MAXIM INTEGRATED

160 RIO ROBLES
SAN JOSE, CA 95134

This Report was prepared by
MAXIM INTEGRATED 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
ASE Chung-Li	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 4/1/2012 and 3/31/2013.

Assembly Information:

Package Type: SFN (Pb-Free)
Date Code Range: 1221 to 1221

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP REVERSE BIAS	1221	DS2431	125C, 5.25 VOLTS	1000 HRS	77	0	
HIGH TEMP REVERSE BIAS	1221	DS2431	125C, 5.25 VOLTS	1000 HRS	77	0	
HIGH TEMP REVERSE BIAS	1221	DS2431	125C, 5.25 VOLTS	1000 HRS	77	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1221	DS2431	150°C	1000 HRS	77	0	
STORAGE LIFE	1221	DS2431	150°C	1000 HRS	77	0	
STORAGE LIFE	1221	DS2431	150°C	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	1221	DS2431	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1221	DS2431	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1221	DS2431	-55C TO 125C	1000 CYS	77	0	
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
-------------	-----------	--------------	-----------	-----------	----------	-------	-------

BIASED MOISTURE	1221	DS2431	85/85, 5.25 VOLTS	1000 HRS	77	0
BIASED MOISTURE	1221	DS2431	85/85, 5.25 VOLTS	1000 HRS	77	0
BIASED MOISTURE	1221	DS2431	85/85, 5.25 VOLTS	1000 HRS	77	0
				Total:		0

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