



7/19/2012

**RELIABILITY MONITOR REPORT
FOR**

TO 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		
Cirtek	3	TO92 (Pb-Free)	Greatek Taiwan	3 TO92 (Pb-Free)

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 40995 FITS: 2.8

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 7/1/2011 and 6/30/2012.

Assembly Information:

Package Type: TO92 (Pb-Free)

Date Code Range: 1127 to 1128

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1127	DS2501	125C, 6.0 VOLTS	1164 HRS	77	0	
HIGH TEMP OP LIFE	1127	DS2501	125C, 6.0 VOLTS	1164 HRS	77	0	
HIGH TEMP OP LIFE	1127	DS2501	125C, 6.0 VOLTS	1164 HRS	77	0	
HIGH TEMP OP LIFE	1128	DS18S20	125C, 5.5 VOLTS	1000 HRS	80	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1127	DS2501	150C	1000 HRS	77	0	
STORAGE LIFE	1127	DS2501	150C	1000 HRS	77	0	
STORAGE LIFE	1127	DS2501	150C	1000 HRS	77	0	
STORAGE LIFE	1128	DS18S20	150C	1000 HRS	80	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	DS2501	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	DS2501	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	DS2501	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1128	DS18S20	-55C TO 125C	1000 CYS	80	0	
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HAST	1127	DS2501	130C, 85%R.H., 5.5V	96	HRS	77	0
HAST	1127	DS2501	130C, 85%R.H., 5.5V	96	HRS	77	0
HAST	1127	DS2501	130C, 85%R.H., 5.5V	96	HRS	77	0
BIASED MOISTURE	1128	DS18S20	85/85, 5.5 VOLTS	1000	HRS	80	0
					Total:	0	0

FAILURE RATE: MTTF (YRS): 40995 FITS: 2.8