



9/3/2008

**PACKAGE RELIABILITY REPORT
FOR**

DS1977 iButton, Rev A2

Maxim Integrated Products

**4401 South Beltwood Parkway
Dallas, TX 75244-3292**

Prepared by:

Ken Wendel

**Ken Wendel
Director, Reliability Engineering
Maxim Integrated Products
4401 South Beltwood Pkwy.
Dallas, TX 75244-3292
Email : ken.wendel@maxim-ic.com
ph: 972-371-3726
fax: 972-371-6016
mbl: 214-435-6610**

Conclusion:

The following qualification successfully meets the quality and reliability standards required of all Maxim packages:

DS1977 iButton, Rev A2

In addition, Maxim's continuous reliability monitor program ensures that all outgoing product will continue to meet Maxim's quality and reliability standards. The current status of the reliability monitor program can be viewed at <http://www.maxim-ic.com/TechSupport/dsreliability.html>.

Package Description:

A description of this assembly can be found in the product data sheet. You can find the product data sheet at http://dbserv.maxim-ic.com/l_datasheet3.cfm.

Note: Due to the nature of the construction on this assembly, no operating life data is collected. Please see respective product report(s).

The reliability data follows. Some of the data in this report may be generic. 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. If there are additional assemblies used as part of this report, a description of each will follow which includes the respective reliability data for that assembly. Where appropriate, preconditioning is performed before all stresses and the bond crater test unless otherwise noted. The reliability data section includes the latest data available.

Assembly Information:

Assembly Site: Fastech
 Pin Count: 2
 Package Type: iButton F50 Bump (RoHS)
 Body Size: 68
 Mold Compound: FP4323, Henkel/Loctite Glob Epoxy
 Lead Frame: PCB; FR4; 2 PASS (Tamura & Senju Pastes)
 Lead Finish: High Pb Ball (Pb95/Sn5)
 Die Attach: Glob Top 4323, Dexter Hysol
 Bond Wire / Size: NA / NA
 Flammability: UL 94-V0
 Moisture Sensitivity: NA
 Date Code Range: 0638 to 0644

DATE CODE: 0644 **LOT NUMBER:** ZW354546AA-QUAL **VEHICLE:** DS1977

STORAGE LIFE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
STORAGE LIFE	85 C	1000 HRS	77	0	
Total:				0	

TEMPERATURE CYCLE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
TEMP CYCLE, 5' RAMP, 10' DWELL	-40 TO 85C	500 CYS	77	0	
Total:				0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
MOISTURE SOAK	60C/90% R.H.	1000 HRS	77	0	
Total:				0	

DATE CODE: 0638 **LOT NUMBER:** ZW354545AA-QUAL **VEHICLE:** DS1977

STORAGE LIFE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
STORAGE LIFE	85 C	1000 HRS	77	0	
Total:				0	

TEMPERATURE CYCLE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
TEMP CYCLE, 5' RAMP, 10' DWELL	-40 TO 85C	500 CYS	77	0	
Total:				0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
MOISTURE SOAK	60C/90% R.H.	1000 HRS	77	0	
Total:				0	

DATE CODE: 0644 LOT NUMBER: ZW354547AA-QUAL VEHICLE: DS1977

STORAGE LIFE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
STORAGE LIFE	85 C	1000 HRS	77	0	
Total:				0	

TEMPERATURE CYCLE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
TEMP CYCLE, 5' RAMP, 10' DWELL	-40 TO 85C	500 CYS	77	0	
Total:				0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
MOISTURE SOAK	60C/90% R.H.	1000 HRS	77	0	
Total:				0	