

RELIABILITY REPORT
FOR

DS9107, iButton Capsule

Dallas Semiconductor

4401 South Beltwood Parkway
Dallas, TX 75244-3292

Prepared by:

Ken Wendel

Ken Wendel
Reliability Engineering Manager
Dallas Semiconductor
4401 South Beltwood Pkwy.
Dallas, TX 75244-3292
Email : ken.wendel@dalsemi.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 Dallas

DS9107, iButton Capsule

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, there is no operating life data collected

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:

Qualification Vehicle	DS9107
Assembly Site:	Dallas
Pin Count:	0
Package Type:	Cap
Body Size:	1"
Mold Compound:	Polyphenylene Sulfide (PPS)
Lead Frame:	None
Lead Finsh:	NA
Die Attach:	None
Bond Wire / Size:	NA / NA
Theta JA:	NA
Theta JC:	NA
Flammability:	UL 94-V0
Moisture Sensitivity (JEDEC J-STD20A)	NA
Date Code Range:	0618 to 0618

TEMPERATURE CYCLE

DESCRIPTION	DATE	CODE	CONDITION	READPOINT	QTY	FAILS	FA#
TEMP CYCLE	0618		-40 TO 85C	1000 CYS	77	0	
			-40 TO 85C	1000 CYS	77	0	
			-40 TO 85C	1000 CYS	77	0	
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE	CODE	CONDITION	READPOINT	QTY	FAILS	FA#
MOISTURE CYCLING	0618		121C, 2 ATM STEAM, UNBIASED	100 CYS	80	0	
			121C, 2 ATM STEAM, UNBIASED	100 CYS	80	0	
			121C, 2 ATM STEAM, UNBIASED	100 CYS	80	0	
LIQUID SUBMERSION - WATER	0618		100 FT PRESSURE, 25C	24 HRS	77	0	
			100 FT PRESSURE, 25C	24 HRS	77	0	
			100 FT PRESSURE, 25C	24 HRS	77	0	
LIQUID SUBMERSION - WINE	0618		100 FT PRESSURE, 25C		22	0	

LIQUID SUBMERSION - 0618 WINE	100 FT PRESSURE, 25C	22	0
	100 FT PRESSURE, 25C	22	0
LIQUID SUBMERSION - 0618 COKE	100 FT PRESSURE, 25C	22	0
	100 FT PRESSURE, 25C	22	0
	100 FT PRESSURE, 25C	22	0
LIQUID SUBMERSION - 0618 SALT WATER	100 FT PRESSURE, 25C	22	0
	100 FT PRESSURE, 25C	22	0
	100 FT PRESSURE, 25C	22	0
Total:			0