

RELIABILITY MONITOR REPORT
FOR

SSOP Package

Dallas Semiconductor

4401 South Beltwood Parkway
Dallas, TX 75244-3292

This Report was prepared by
Dallas Semiconductor Reliability Engineering

Summary:

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

ASSY SITE	PINS	PACKAGE		
ATK (Amkor, K)	36	SSOP	ATP (Amkor, PI)	16 SSOP
ATP (Amkor, PI)	28	SSOP	ATP (Amkor, PI)	36 SSOP
ATP (Amkor, PI)	16	SSOP (Pb-Free)	ATP (Amkor, PI)	24 SSOP (Pb-Free)
ATP (Amkor, PI)	28	SSOP (Pb-Free)	ATP (Amkor, PI)	36 SSOP (Pb-Free)
Carsem	36	SSOP	Carsem	16 SSOP (Pb-Free)
Carsem	24	SSOP (Pb-Free)	Carsem	28 SSOP (Pb-Free)
Carsem	36	SSOP (Pb-Free)	Hynix	28 SSOP

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 9048 FITS: 12.6

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 1/1/2006 and 12/31/2006.

Assembly Information:

Package Type: SSOP (Pb-Free) 7.5x2.4
 Flammability: UL 94-V0
 Moisture Sensitivity Level 1
 (JEDEC J-STD20A)
 Date Code Range: 0547 to 0547

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0547	DS2118M	125C, 5.5 VOLTS	1000 HRS	77	0	
Total:						0	

PACKAGE TESTS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
ULTRASOUND	0547	DS2118M	J-STD-020		4	0	
Total:						0	

PRECONDITIONING LEVEL 1

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0547	DS2118M	125C	48 HRS	235		
MOISTURE SOAK			85 C/85% R.H.	168 HRS	235		
CONVECTION REFLOW			260C +/-5C	3 PASS	235	0	
PRECONDITION U/S	0547	DS2118M	J-STD-020		4	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
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TEMP CYCLE	0547	DS2118M	-55C TO 125C	1000 CYS	77	0
				Total:		0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
AUTOCLAVE	0547	DS2118M	121C, 2 ATM STEAM, UNBIASED	168 HRS	76	0	
				Total:		0	

FAILURE RATE: MTTF (YRS): 9048 FITS: 12.6