



1/25/2008

RELIABILITY MONITOR REPORT
FOR

SOIC 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		
ATP (Amkor, PI)	24	SOIC	ATP (Amkor, PI)	8 SOIC (Pb-Free)
ATP (Amkor, PI)	28	SOIC (Pb-Free)	Carsem	8 SOIC (Pb-Free)
CIRTEK	20	SOIC Welded Crystal (RoHS)	Unisem	8 SOIC
Unisem	8	SOIC (Pb-Free)	UTL (NSEB) UTAC	8 SOIC (Pb-Free)

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 75437 FITS: 1.5

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 and

Assembly Information:

Package Type: SOIC
Flammability: UL 94-V0
Date Code Range: 0646 to 0652

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0646	DS75	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0652	DS17885	125C, 5.5 VOLTS	1000 HRS	77	0	
				Total:		0	

Assembly Information:

Package Type: SOIC (Pb-Free)
Flammability: UL 94-V0
Date Code Range: 0710 to 0722

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0710	DS1722	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0713	DS2413	125C, 5.25 VOLTS	1000 HRS	45	0	
			125C, 5.25 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0713	DS3994	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0713	DS75LX	125C, 3.7 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0714	DS1682	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0722	DS1311	125C, 5.5 VOLTS	1000 HRS	77	0	
				Total:		0	

W/E ENDURANCE AND DATA RET'N

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
WRITE CYCLE STRESS (KCYS)	0713	DS3994	70 C, 5.5 VOLTS	30	KCYS	77	0
STORAGE LIFE			150C	1000	HRS	77	0
WRITE CYCLE STRESS (KCYS)	0714	DS1682	85 C, 5.5 VOLTS	30	KCYS	77	0
STORAGE LIFE			150C	1000	HRS	77	0
					Total:	0	0

Assembly Information:

Package Type: SOIC w/Crystal
Flammability: UL 94-V0
Date Code Range: 0720 to 0720

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0720	DS3232	125C, 5.5 VOLTS	1000	HRS	45	0
					Total:	0	0

FAILURE RATE: MTTF (YRS): 75437 FITS: 1.5