



1/25/2008

RELIABILITY MONITOR REPORT  
FOR

**SOT 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		
Carsem	5	SOT23 (Pb-Free)	UNK	3 SOT23
UNK	4	SOT23	UNK	5 SOT23
UNK	6	SOT23	UNK	8 SOT23

The calculated failure rate for this assembly is:

**FAILURE RATE: MTTF (YRS): 266644 FITS: 0.4**

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

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**Assembly Information:**

Package Type: SOT23  
Flammability: UL 94-V0  
Date Code Range: 0502 to 0718

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE		MAX1086EKA+	135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0502	MAX5026EUT	135C, 5.25V	1000 HRS	77	0	
HIGH TEMP OP LIFE	0605	MAX2470EUT	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0612	MAX7044AKA+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0619	MAX2606EUT+	135C, 5.25V	1000 HRS	79	0	
HIGH TEMP OP LIFE	0622	MAX6864UK31D3S+	135C, 5.25V	1000 HRS	79	0	
		MAX1086EKA+	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	44	0	
HIGH TEMP OP LIFE	0627	MAX6425UK26+T	135C, 5.25V	1000 HRS	70	0	
HIGH TEMP OP LIFE	0629	MAX1616EUK+	135C, 5.25V	1000 HRS	54	0	
HIGH TEMP OP LIFE	0636	MAX4246AKA+	135C, 5.25V	1000 HRS	98	0	
HIGH TEMP OP LIFE	0643	MAX6315US26D3+	135C, 5.25V	1000 HRS	77	0	
HIGH TEMP OP LIFE	0646	MAX6333UR23D2-C07	135C, 5.25V	1000 HRS	78	0	
HIGH TEMP OP LIFE	0701	MAX8863EUK+	135C, 5.25V	1000 HRS	44	0	
			135C, 5.25V	1000 HRS	44	0	
			135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0713	MAX6749KA+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0716	MAX8863SEUK+T	135C, 5.25V	1000 HRS	50	0	
			135C, 5.25V	1000 HRS	50	0	
		MAX6033BAUT41+	135C, 5.25V	1000 HRS	43	0	

HIGH TEMP OP LIFE	0716	MAX6033BAUT41+	135C, 5.25V	1000 HRS	45	0
		MAX8863SEUK+T	135C, 5.25V	1000 HRS	50	0
		MAX6033BAUT41+	135C, 5.25V	1000 HRS	45	0
HIGH TEMP OP LIFE	0718	MAX2640EUT+	135C, 5.25V	1000 HRS	70	0
<b>Total:</b>						<b>0</b>

**Assembly Information:**

Package Type: SOT23 (Pb-Free)  
 Flammability: UL 94-V0  
 Date Code Range: 0722 to 0722

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0722	DS1814	150C	1000 HRS	77	0	
STORAGE LIFE	0722	DS1814	150C	1000 HRS	77	0	
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0722	DS1814	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0722	DS1814	-55C TO 125C	1000 CYS	77	0	
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 266644 FITS: 0.4**