



1/25/2008

**RELIABILITY MONITOR REPORT  
FOR**

**DAL 0.35 $\mu$ m "D" Silicon Gate CMOS**

**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 Process Reliability Monitor. The specific products in this process monitor are:

DS1081L	DS2155
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The calculated failure rate for devices using this process is:

**FAILURE RATE:**                      **MTTF (YRS): 32431**                      **FITS: 3.5**

The parameters used to calculate this failure rate are as follows:

**Cf: 60%**                      **Ea: 0.7**                      **Tu: 25 °C**

The reliability data follows and in this section is the detailed reliability data by stress. The reliability data section includes the latest data available. This report covers data between and

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**Process Information:**

Process Description:                      DAL 0.35µm "D" Silicon Gate CMOS

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0701	DS1081L	125C, 3.6 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0702	DS2155	125C, 3.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0709	DS2155	125C, 3.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0712	DS2155	125C, 3.5 VOLTS	1000 HRS	77	0	
<b>Total:</b>						<b>0</b>	

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**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0702	DS2155	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0709	DS2155	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0712	DS2155	-55C TO 125C	1000 CYS	75	0	
<b>Total:</b>						<b>0</b>	

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**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HAST	0702	DS2155	130C, 85%R.H.,3.5V	96 HRS	45	0	
HAST	0709	DS2155	130C, 85%R.H.,3.5V	96 HRS	45	0	
HAST	0712	DS2155	130C, 85%R.H.,3.5V	96 HRS	45	0	
<b>Total:</b>						<b>0</b>	

**FAILURE RATE:**                      **MTTF (YRS): 32431**                      **FITS: 3.5**