

10/23/2012



**RELIABILITY MONITOR REPORT
FOR**

FAB-101 Silicon Gate 0.18 μ m CMOS (S18)

MAXIM INTEGRATED

**160 RIO ROBLES
SAN JOSE, CA 95134**

**This Report was prepared by
MAXIM INTEGRATED 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:

MAX7370ATG+	MAX77686EWE	MAX8955E/DW	MAX8957BEWI	MAX8957EWI+T
MAX8957TEWI+	MAX8959EWG+	MAX8968EWL+	MAX8971EWP+	MAX8971EWP+
MAX8997EWW+	MAX98095EWG	MAX98096EWF	MAX98096EWF	

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 24501 QUANTITY: 762 FAILS: 1 FITS: 4.7

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 10/1/2011 and 9/30/2012 .

Process Information:

Process Description: FAB-101 Silicon Gate 0.18µm CMOS (S18)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE		MAX8997EWW+T	135°C	1000 HRS	48	0	VW3ZEA556B
HIGH TEMP OP LIFE	1114	MAX7370ATG+	135°C	192 HRS	79	0	VY0ZAQ001DQ
HIGH TEMP OP LIFE	1133	MAX8959EWG+T	135°C	500 HRS	45	0	VR2ZG2144AC
HIGH TEMP OP LIFE	1139	MAX8968EWL+CBF	135°C	500 HRS	48	0	VX2YBA006AQ
HIGH TEMP OP LIFE	1143	MAX8971EWP+T	135°C	192 HRS	50	0	VAAU8A006AQ
HIGH TEMP OP LIFE	1143	MAX98095EWG	135°C	500 HRS	45	0	V5AZAQ002CA
HIGH TEMP OP LIFE	1145	MAX8959EWG+T	135°C	192 HRS	45	0	VR2ZG2238AC
HIGH TEMP OP LIFE	1146	MAX8959EWG+T	135°C	192 HRS	45	0	VR2ZG2239AG
HIGH TEMP OP LIFE	1149	MAX8971EWP+	135°C	192 HRS	48	0	VADF6A005AQ
HIGH TEMP OP LIFE	1205	MAX77686EWE+T	135°C	240 HRS	48	0	VAEC0Q003BQ
HIGH TEMP OP LIFE	1206	MAX8957BEWI+T	135°C	192 HRS	46	0	VADE0A004AQ
HIGH TEMP OP LIFE	1222	MAX98096EWF+	135°C	500 HRS	46	1	VAHH8Q002AQ
HIGH TEMP OP LIFE	1223	MAX8955E/DW+	135°C	568 HRS	80	0	VAGP8A009AQ
HIGH TEMP OP LIFE	N/A	MAX8959EWG+T	135°C	1000 HRS	44	0	VR2ZGQ001I
HIGH TEMP OP LIFE	N/A	MAX8959EWG+T	135°C	1000 HRS	45	0	VR2ZGA231CB
Total:						1	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1229	MAX8997EWW+T	150°C	500 HRS	77	1	VW3ZDQ002B#

STORAGE LIFE	1229	MAX8997EWW+T	150°C	500	HRS	77	1	VW3ZDQ002BB
STORAGE LIFE	1242	MAX98096EWF+T	150°C	1000	HRS	77	0	VAEK8Q001B
STORAGE LIFE	1242	MAX98096EWF+T	150°C	1000	HRS	77	0	VAEK8Q001C
STORAGE LIFE	1242	MAX98096EWF+T	150°C	1000	HRS	77	0	VAEK8Q001D
STORAGE LIFE	N/A	MAX8997EWW+T	150°C	1000	HRS	77	0	VW3ZEA556B
STORAGE LIFE	N/A	MAX8997EWW+T	150°C	1000	HRS	77	0	VW3ZEA556C
STORAGE LIFE	N/A	MAX8997EWW+T	150°C	1000	HRS	77	0	VW3ZEA556D
STORAGE LIFE	N/A	MAX8959EWG+T	150°C	1000	HRS	77	0	VR2ZGA231BB
STORAGE LIFE	N/A	MAX8959EWG+T	150°C	1024	HRS	77	0	VR2ZGA231CB
STORAGE LIFE	N/A	MAX8959EWG+T	150°C	1024	HRS	77	0	VR2ZGA231DB
STORAGE LIFE	N/A	MAX98095EWG	150°C	1048	HRS	77	0	V0VZBQ003AG
STORAGE LIFE	N/A	MAX98095EWG	150°C	1048	HRS	77	0	V0VZBQ003AI
STORAGE LIFE	N/A	MAX98095EWG	150°C	1048	HRS	77	0	V0VZBQ003AK
STORAGE LIFE	N/A	MAX98095EWG	150°C	1000	HRS	77	0	V5AZAQ002CA
STORAGE LIFE	N/A	MAX98095EWG	150°C	1000	HRS	77	0	V5AZAQ002AA
STORAGE LIFE	N/A	MAX98095EWG	150°C	1000	HRS	77	0	V5AZAQ002BA
STORAGE LIFE	N/A	MAX8957TEWI+T	150°C	1000	HRS	68	1	VADE0A004C
STORAGE LIFE	N/A	MAX8957TEWI+T	150°C	1000	HRS	77	0	VADE0A004D
STORAGE LIFE	N/A	MAX8957TEWI+T	150°C	1000	HRS	77	0	VADE0A004E
Total:							3	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX8957TEWI+T	-40C TO +125C	410	CYS	77	0	VADE0Q002A
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX8957TEWI+T	-40C TO +125C	500	CYS	77	1	VADE0Q002C#
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX8957TEWI+T	-40C TO +125C	410	CYS	77	1	VADE0Q002D
TEMP CYCLE, 15' RAMP, 15' DWELL	1242	MAX98096EWF+T	-40C TO +125C	500	CYS	76	0	VAEK8Q001B
TEMP CYCLE, 15' RAMP, 15' DWELL	1242	MAX98096EWF+T	-40C TO +125C	500	CYS	76	0	VAEK8Q001C
TEMP CYCLE, 15' RAMP, 15' DWELL	1242	MAX98096EWF+T	-40C TO +125C	470	CYS	77	0	VAEK8Q001D
TEMP CYCLE, 15' RAMP, 15' DWELL	1242	MAX98096EWF+T	-40C TO +125C	500	CYS	77	0	VAEK8Q001D
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX8997EWW+T	-40C TO +125C	500	CYS	77	0	VW3ZEA556B
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX8997EWW+T	-40C TO +125C	500	CYS	77	0	VW3ZEA556C
TEMP CYCLE, 5' RAMP, 10' DWELL	N/A	MAX8997EWW+T	-65C TO 150C	500	CYS	77	0	VW3ZEA556C

TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX8997EWW+T	-40C TO +125C	500	CYS	77	0	VW3ZEA556D
TEMP CYCLE, 5' RAMP, 10' DWELL	N/A	MAX8997EWW+T	-65C TO 150C	500	CYS	77	0	VW3ZEA556D
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX8959EWG+T	-40C TO +125C	500	CYS	77	0	VR2ZGA231BB
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX8959EWG+T	-40C TO +125C	500	CYS	77	0	VR2ZGA231CB
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX8959EWG+T	-40C TO +125C	500	CYS	77	0	VR2ZGA231DB
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX98095EWG	-40C TO +125C	500	CYS	77	0	V0VZBQ003AI
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX98095EWG	-40C TO +125C	500	CYS	77	0	V5AZAQ002CA
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX98095EWG	-40C TO +125C	500	CYS	77	0	V5AZAQ002AA
TEMP CYCLE, 5' RAMP, 10' DWELL	N/A	MAX98095EWG	-65C TO 150C	500	CYS	77	0	V5AZAQ002AA
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX98095EWG	-40C TO +125C	500	CYS	77	0	V5AZAQ002BA
TEMP CYCLE, 5' RAMP, 10' DWELL	N/A	MAX98095EWG	-65C TO 150C	500	CYS	77	0	V5AZAQ002BA
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX8957EWI+T	-40C TO +125C	500	CYS	77	1	VADE0A004C
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX8957TEWI+T	-40C TO +125C	500	CYS	73	0	VADE0A004D
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX8957TEWI+T	-40C TO +125C	500	CYS	76	0	VADE0A004E

Total: 3

FAILURE RATE: MTTF (YRS): 24501 QUANTITY: 762 FAILS: 1 FITS: 4.7

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