

10/23/2014



**RELIABILITY MONITOR REPORT
FOR**

Fab7 0.18μm Silicon Gate (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:

MAX9832ETG+	MAX98400AET
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 38756 QUANTITY: 240 FAILS: 0 FITS: 2.9

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 10/1/2013 and 9/30/2014 .

Process Information:

Process Description: Fab7 0.18µm Silicon Gate (S18)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1327	MAX98400AETX+	135°C	1000 HRS	80	0	FAMY9Z015A
HIGH TEMP OP LIFE	1328	MAX9832ETG+	135°C	1000 HRS	80	0	FAJE1Z003D
HIGH TEMP OP LIFE	1338	MAX98400AETX+	135°C	1000 HRS	80	0	FAMY9Z016B
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1327	MAX98400AETX+	150°C	1000 HRS	80	0	FAMY9Z015A
STORAGE LIFE	1328	MAX9832ETG+	150°C	1000 HRS	80	0	FAJE1Z003D
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1327	MAX98400AETX+	-65C TO +150C (Condition C)	500 CYS	80	0	FAMY9Z015A
TEMP CYCLE, 5' RAMP, 10' DWELL	1328	MAX9832ETG+	-65C TO +150C (Condition C)	500 CYS	80	0	FAJE1Z003D
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1327	MAX98400AETX+	130C, 85% R.H.	100 HRS	80	0	FAMY9Z015A
BIASED MOISTURE	1328	MAX9832ETG+	130C, 85% R.H.	100 HRS	80	0	FAJE1Z003D

FAILURE RATE: **MTTF (YRS): 38756** **QUANTITY: 240** **Total:** **0**
FAILS: 0 **FITS: 2.9**