

8/1/2019



**RELIABILITY MONITOR REPORT
FOR**

Fab 101 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:

MAX17302	MAX17502GATB	MAX20021ATIA/	MAX20022ATIB/	MAX77714EWC
MAX77812EXJ+	MAX86917EFD+	MAX98357AEW	MAX98357BEW	MAX98730EWJ+

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 62038 QUANTITY: 346 FAILS: 0 FITS: 1.8

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 4/1/2019 and 8/1/2019 .

Process Information:

Process Description: Fab 101 S18

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE		MAX17302	125°C	1000 HRS	79	0	VBZR6Q002B
HIGH TEMP OP LIFE	1743	MAX77714EWC+	125°C	192 HRS	32	0	VBUF8Q001D\$
HIGH TEMP OP LIFE	1750	MAX98357BEWL+TG7	125°C	1000 HRS	48	0	VBUG4Q001B
HIGH TEMP OP LIFE	1750	MAX98357BEWL+TG7	125°C	1000 HRS	32	0	VBUG4Q001B
HIGH TEMP OP LIFE	1810	MAX86917EFD+T	125°C	1000 HRS	80	0	VBTU1A040BC
HIGH TEMP OP LIFE	1812	MAX17502GATB+T	125°C	1000 HRS	75	0	VBTO0A004B
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1803	MAX98730EWJ+TCGT	150°C	1000 HRS	80	0	VASU5A301AD
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1825	MAX86917EFD+T	-40C TO +125C (Condition G)	1000 CYS	80	0	VBTU1A044CD
TEMP CYCLE, 5' RAMP, 10' DWELL	1825	MAX86917EFD+T	-40C TO +125C (Condition G)	1000 CYS	80	0	VBTU1A044CE
TEMP CYCLE, 5' RAMP, 10' DWELL	1825	MAX86917EFD+T	-40C TO +125C (Condition G)	1000 CYS	80	0	VBTU1A044CF
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE		MAX98357AEWL+T	130C, 85% R.H.	264 HRS	80	0	VBUG4A004DK
BIASED MOISTURE	1825	MAX86917EFD+T	85 C/85% R.H.	96 HRS	50	0	VBTU1A044CD
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK		MAX98357AEWL+T	130C, 85% R.H.	96 HRS	80	0	VBUG4A004DK
MOISTURE SOAK	1825	MAX86917EFD+T	130C, 85% R.H.	96 HRS	80	0	VBTU1A044CD
MOISTURE SOAK	1825	MAX86917EFD+T	130C, 85% R.H.	96 HRS	80	0	VBTU1A044CE
MOISTURE SOAK	1825	MAX86917EFD+T	130C, 85% R.H.	96 HRS	80	0	VBTU1A044CF
MOISTURE SOAK	1825	MAX86917EFD+T	130C, 85% R.H.	96 HRS	50	0	VBTU1A044CD
MOISTURE SOAK	1911	MAX77812EXJ+	130C, 85% R.H.	96 HRS	100	0	VBRO3Q002G
Total:						0	

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