

1/24/2019



**RELIABILITY MONITOR REPORT
FOR**

San Antonio EC8

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:

DS1685S-3+

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 7751 QUANTITY: 80 FAILS: 0 FITS: 14.7

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 10/1/2018 and 12/31/2018.

Process Information:

Process Description: San Antonio EC8

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1721	DS1685S-3+	125°C	500 HRS	80	0	FK744420ADD
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1814	DS1685S-3+	150°C	1000 HRS	80	0	FM800693AF
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1814	DS1685S-3+	-65C TO +150C (Condition C)	1000 CYS	80	0	FM800693AF
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1814	DS1685S-3+	130C, 85% R.H.	96 HRS	80	0	FM800693AF
Total:						0	

FAILURE RATE: MTTF (YRS): 7751 QUANTITY: 80 FAILS: 0 FITS: 14.7