

1/24/2019



**RELIABILITY MONITOR REPORT
FOR**

MFN GST20

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:

MAX2235EUP+	MAX3645EEE+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 41663 QUANTITY: 215 FAILS: 0 FITS: 2.7

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 1/1/2019 and 12/31/2018.

Process Information:

Process Description: MFN GST20

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1745	MAX3645EEE+	135°C	1000 HRS	55	0	NNL0A3128EB
HIGH TEMP OP LIFE	1745	MAX3645EEE+	135°C	1000 HRS	25	0	NNL0A3128EB
HIGH TEMP OP LIFE	1820	MAX3645EEE+	125°C	1000 HRS	55	0	NNL0A3130AA
HIGH TEMP OP LIFE	1832	MAX2235EUP+	125°C	1000 HRS	80	0	NW2AF3109AA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1745	MAX3645EEE+	150°C	1000 HRS	80	0	NNL0A3128EB
STORAGE LIFE	1820	MAX3645EEE+	150°C	1000 HRS	80	0	NNL0A3130AA
STORAGE LIFE	1832	MAX2235EUP+	150°C	500 HRS	80	0	NW2AF3109AA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1745	MAX3645EEE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NNL0A3128EB
TEMP CYCLE, 5' RAMP, 10' DWELL	1820	MAX3645EEE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NNL0A3130AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1832	MAX2235EUP+	-65C TO +150C (Condition C)	1000 CYS	80	0	NW2AF3109AA
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1745	MAX3645EEE+	85 C/85% R.H.	96 HRS	79	0	NNL0A3128EB	
BIASED MOISTURE	1820	MAX3645EEE+	130C, 85% R.H.	HRS	80	0	NNL0A3130AA	
BIASED MOISTURE	1832	MAX2235EUP+	130C, 85% R.H.	96 HRS	80	0	NW2AF3109AA	
					Total:	0		
FAILURE RATE:	MTTF (YRS):	41663	QUANTITY:	215	FAILS:	0	FITS:	2.7