

8/1/2019



**RELIABILITY MONITOR REPORT  
FOR**

**MFN GST40**

**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:

DG201ACSE+	MAX2058ETL+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 27781    QUANTITY: 208    FAILS: 0    FITS: 4.1**

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:            MFN GST40

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1804	MAX2058ETL+	125°C	1000 HRS	48	0	NT40AA223GA
HIGH TEMP OP LIFE	1804	MAX2058ETL+	125°C	192 HRS	80	0	NT40AA223GB
HIGH TEMP OP LIFE	1825	DG201ACSE+	125°C	1000 HRS	80	0	R40371AB1
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1804	MAX2058ETL+	150°C	1000 HRS	80	0	NT40AA223GA
STORAGE LIFE	1804	MAX2058ETL+	150°C	1000 HRS	80	0	NT40AA223GB
STORAGE LIFE	1825	DG201ACSE+	150°C	1000 HRS	80	0	R40371AX2
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX2058ETL+	-65C TO +150C (Condition C)	1000 CYS	80	0	NT40AA223GA
TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX2058ETL+	-65C TO +150C (Condition C)	1000 CYS	78	0	NT40AA223GB
TEMP CYCLE, 5' RAMP, 10' DWELL	1825	DG201ACSE+	-65C TO +150C (Condition C)	1000 CYS	80	0	R40371AT2
<b>Total:</b>						<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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BIASED MOISTURE	1804	MAX2058ETL+	130C, 85% R.H.	96	HRS	80	0	NT40AA223GB
BIASED MOISTURE	1825	DG201ACSE+	130C, 85% R.H.	96	HRS	80	0	R40371AH1
					<b>Total:</b>		<b>0</b>	
<b>FAILURE RATE:</b>		<b>MTTF (YRS): 27781</b>	<b>QUANTITY: 208</b>		<b>FAILS: 0</b>		<b>FITS: 4.1</b>	