1/10/2018

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+	MAX2248ETE+	MAX3645EEE+	MAX3969ETP+

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 93860 QUANTITY: 549 FAILS: 0 FITS: 1.2

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 10/1/2017 and 12/31/2017.

Process Information:

Process Description: MFN GST20

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1613	MAX3645EEE+	135°C	1000 HRS	55	0	NNL0AA122Q1
HIGH TEMP OP LIFE	1635	MAX3969ETP+	135°C	1000 HRS	32	0	NSM0AA201AB
HIGH TEMP OP LIFE	1641	MAX2235EUP+	135°C	1000 HRS	80	0	NW2AFA098EF
HIGH TEMP OP LIFE	1646	MAX3969ETP+	135°C	1000 HRS	48	0	NSM0AA203CA
HIGH TEMP OP LIFE	1706	MAX2248ETE+	135°C	192 HRS	80	0	NBOI0Q001CQ
HIGH TEMP OP LIFE	1715	MAX2235EUP+	135°C	1000 HRS	80	0	NW2AFA101BA
HIGH TEMP OP LIFE	1724	MAX2235EUP+	135°C	1000 HRS	80	0	NW2AF3100C
HIGH TEMP OP LIFE	1725	MAX3969ETP+	135°C	1000 HRS	48	0	NSM0A2206B
HIGH TEMP OP LIFE	1725	MAX3969ETP+	135°C	1000 HRS	46	0	NSM0A2206B
				Total:		**0**	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1641	MAX2235EUP+	150°C	1000 HRS	80	0	NW2AFA098EF
STORAGE LIFE	1646	MAX3969ETP+	150°C	1000 HRS	80	0	NSM0AA203CA
STORAGE LIFE	1715	MAX2235EUP+	150°C	1000 HRS	80	0	NW2AFA101BA
STORAGE LIFE	1724	MAX2235EUP+	150°C	1000 HRS	80	0	NW2AF3100C
				Total:		**0**	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1641	MAX2235EUP+	-65C TO +150C (Condition C)	1000 CYS	80	0	NW2AFA098EF

TEMP CYCLE, 5' RAMP, 10' DWELL	1646	MAX3969ETP+	-65C TO +150C (Condition C)	1000	CYS	80	0	NSM0AA203CA
TEMP CYCLE, 5' RAMP, 10' DWELL	1702	MAX2248ETE+	-65C TO +150C (Condition C)	1000	CYS	100	0	NBOI0Q001B#
TEMP CYCLE, 5' RAMP, 10' DWELL	1702	MAX2248ETE+	-65C TO +150C (Condition C)	1000	CYS	100	0	NBOI0Q001B$
TEMP CYCLE, 5' RAMP, 10' DWELL	1702	MAX2248ETE+	-65C TO +150C (Condition C)	1000	CYS	100	0	NBOI0Q001B%
TEMP CYCLE, 5' RAMP, 10' DWELL	1715	MAX2235EUP+	-65C TO +150C (Condition C)	1000	CYS	80	0	NW2AFA101BA
TEMP CYCLE, 5' RAMP, 10' DWELL	1724	MAX2235EUP+	-65C TO +150C (Condition C)	1000	CYS	80	0	NW2AF3100C
					Total:		**0**	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1641	MAX2235EUP+	130C, 85% R.H.	96	HRS	80	0	NW2AFA098EF
BIASED MOISTURE	1646	MAX3969ETP+	130C, 85% R.H.	96	HRS	43	0	NSM0AA203CA
BIASED MOISTURE	1715	MAX2235EUP+	130C, 85% R.H.	96	HRS	79	0	NW2AFA101BA
BIASED MOISTURE	1724	MAX2235EUP+	130C, 85% R.H.	96	HRS	80	0	NW2AF3100C
					Total:		**0**	

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