10/17/2018

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+	MAX3645EEE+	MAX3969ETP+

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 59879 QUANTITY: 309 FAILS: 0 FITS: 1.9

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 7/1/2018 and 9/30/2018 .

Process Information:

Process Description: MFN GST20

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
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
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
					Total:		**0**	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1724	MAX2235EUP+	150°C	1000	HRS	80	0	NW2AF3100C
STORAGE LIFE	1745	MAX3645EEE+	150°C	1000	HRS	80	0	NNL0A3128EB
STORAGE LIFE	1820	MAX3645EEE+	150°C	1000	HRS	80	0	NNL0A3130AA
					Total:		**0**	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1724	MAX2235EUP+	-65C TO +150C (Condition C)	1000	CYS	80	0	NW2AF3100C
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

					Total:		0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1724	MAX2235EUP+	130C, 85% R.H.	96	HRS	80	0	NW2AF3100C
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
					Total:		0	

FAILURE RATE: MTTF (YRS): 59879 QUANTITY: 309 FAILS: 0 FITS: 1.9