

4/16/2014



**RELIABILITY MONITOR REPORT
FOR**

MFN 5 μ m Silicon Gate HV (S5HV)

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:

DG406AZ/883B	MAX313LESE+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 33303 QUANTITY: 259 FAILS: 0 FITS: 3.4

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 4/1/2013 and 3/31/2014 .

Process Information:

Process Description: MFN 5µm Silicon Gate HV (S5HV)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1230	MAX313LESE+	135°C	192 HRS	80	0	N6U1BA111M#
HIGH TEMP OP LIFE	1327	DG406AZ/883B	135°C	500 HRS	45	0	NSZAHA379Q3
HIGH TEMP OP LIFE	1327	DG406AZ/883B	135°C	1000 HRS	45	0	NSZAHA379Q3
HIGH TEMP OP LIFE	3B13	DG406AZ/883B	135°C	1000 HRS	44	0	NSZAHA379Q2
HIGH TEMP OP LIFE	3B13	DG406AZ/883B	135°C	1000 HRS	45	0	NSZAHA379Q2
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	3B13	DG406AZ/883B	150°C	1000 HRS	80	0	NSZAHA379Q1
STORAGE LIFE	3B13	DG406AZ/883B	150°C	1000 HRS	80	0	NSZAHA379Q2
STORAGE LIFE	3B13	DG406AZ/883B	150°C	1000 HRS	80	0	NSZAHA379Q3
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	3B13	DG406AZ/883B	-65C TO 150C	1000 CYS	80	0	NSZAHA379Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	3B13	DG406AZ/883B	-65C TO 150C	1000 CYS	80	0	NSZAHA379Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	3B13	DG406AZ/883B	-65C TO 150C	1000 CYS	80	0	NSZAHA379Q3
Total:						0	

FAILURE RATE: MTTF (YRS): 33303 QUANTITY: 259 FAILS: 0 FITS: 3.4