

7/10/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN 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	DG406EWI+	DG407EWI+	DG419LDJ+	MAX4666ESE+
--------------	-----------	-----------	-----------	-------------

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 31005 QUANTITY: 160 FAILS: 0 FITS: 3.7

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 4/1/2017 and 6/30/2017 .

Process Information:

Process Description: MFN S5HV

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1623	DG406EWI+	135°C	1000 HRS	80	0	NSZAHA498CD
HIGH TEMP OP LIFE	1643	DG419LDJ+	135°C	1000 HRS	80	0	N7J0B2078G
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1540	MAX4666ESE+	150°C	1000 HRS	80	0	N79CBA231Q1
STORAGE LIFE	1540	MAX4666ESE+	150°C	1000 HRS	80	0	N79CBA231Q3
STORAGE LIFE	1623	DG406EWI+	150°C	1000 HRS	80	0	NSZAHA498CD
STORAGE LIFE	1631	DG406AZ/883B	150°C	1000 HRS	80	0	NSZAHA499Q1
STORAGE LIFE	1631	DG406AZ/883B	150°C	1000 HRS	80	0	NSZAHA499Q2
STORAGE LIFE	1631	DG406AZ/883B	150°C	1000 HRS	80	0	NSZAHA499Q3
STORAGE LIFE	1706	DG407EWI+	150°C	1000 HRS	80	0	NSZBHA536DE
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1540	MAX4666ESE+	-65C TO +150C (Condition C)	500 CYS	80	0	N79CBA231Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1623	DG406EWI+	-65C TO +150C (Condition C)	1000 CYS	80	0	NSZAHA498CD
TEMP CYCLE, 5' RAMP, 10' DWELL	1631	DG406AZ/883B	-65C TO +150C (Condition C)	1000 CYS	80	0	NSZAHA499Q1

TEMP CYCLE, 5' RAMP, 10' DWELL	1631	DG406AZ/883B	-65C TO +150C (Condition C)	1000	CYS	80	0	NSZAHA499Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1631	DG406AZ/883B	-65C TO +150C (Condition C)	1000	CYS	80	0	NSZAHA499Q3
TEMP CYCLE, 5' RAMP, 10' DWELL	1706	DG407EWI+	-65C TO +150C (Condition C)	1000	CYS	80	0	NSZBHA536DE
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1623	DG406EWI+	130C, 85%	96	HRS	80	0 NSZAHA498CD
BIASED MOISTURE	1706	DG407EWI+	130C, 85%	96	HRS	80	0 NSZBHA536DE
Total:							0
FAILURE RATE:	MTTF (YRS): 31005		QUANTITY: 160	FAILS: 0		FITS: 3.7	