

10/27/2017



**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+	MAX308CSE+
MAX333AEWP+				

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 61816 QUANTITY: 398 FAILS: 0 FITS: 1.8

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 7/1/2017 and 9/30/2017 .

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	1631	DG406AZ/883B	135°C	500 HRS	78	0	NSZAHA499UC
HIGH TEMP OP LIFE	1631	DG406AZ/883B	135°C	500 HRS	80	0	NSZAHA499Q8
HIGH TEMP OP LIFE	1643	DG419LDJ+	135°C	1000 HRS	80	0	N7J0B2078G
HIGH TEMP OP LIFE	1725	MAX333AEWP+	135°C	1000 HRS	80	0	NCGADA280D
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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
STORAGE LIFE	1720	MAX308CSE+	150°C	1000 HRS	80	0	NSXAHA978DX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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
TEMP CYCLE, 5' RAMP, 10' DWELL	1720	MAX308CSE+	-65C TO +150C (Condition C)	1000	CYS	80	0	NSXAHA978DX
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
BIASED MOISTURE	1720	MAX308CSE+	130C, 85%	96	HRS	80	0 NSXAHA978DX
Total:						0	

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