

1/24/2019



**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:

MAX333AEWP+	MAX351ESE+	MAX4661CAE+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 45733 QUANTITY: 236 FAILS: 0 FITS: 2.5

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 10/1/2018 and 12/31/2018.

Process Information:

Process Description: MFN S5HV

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1742	MAX333AEWP+	135°C	1000 HRS	78	0	NCGADA288BC
HIGH TEMP OP LIFE	1810	MAX351ESE+	135°C	1000 HRS	80	0	NRLAG3711DX
HIGH TEMP OP LIFE	1813	MAX351ESE+	125°C	1000 HRS	78	0	NRLAG3711EX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1734	MAX4661CAE+	150°C	1000 HRS	90	0	N77ABA544AB
STORAGE LIFE	1734	MAX4661CAE+	150°C	500 HRS	90	0	N77ABA544AC
STORAGE LIFE	1742	MAX333AEWP+	150°C	1000 HRS	80	0	NCGADA288BC
STORAGE LIFE	1810	MAX351ESE+	150°C	1000 HRS	80	0	NRLAG3711DX
STORAGE LIFE	1813	MAX351ESE+	150°C	500 HRS	80	0	NRLAG3711EX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1742	MAX333AEWP+	-65C TO +150C (Condition C)	1000 CYS	80	0	NCGADA288BC
TEMP CYCLE, 5' RAMP, 10' DWELL	1810	MAX351ESE+		1000 CYS	78	0	NRLAG3711DX
TEMP CYCLE, 5' RAMP, 10' DWELL	1813	MAX351ESE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NRLAG3711EX
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1734	MAX4661CAE+	85 C/85% R.H.	96	HRS	79	0 N77ABA544AB
BIASED MOISTURE	1734	MAX4661CAE+	85 C/85% R.H.	96	HRS	80	0 N77ABA544AC
BIASED MOISTURE	1742	MAX333AEWP+	85 C/85% R.H.	96	HRS	79	0 NCGADA288BC
BIASED MOISTURE	1810	MAX351ESE+	130C, 85% R.H.	96	HRS	80	0 NRLAG3711DX
BIASED MOISTURE	1813	MAX351ESE+	130C, 85% R.H.		HRS	80	0 NRLAG3711EX
					Total:		0
FAILURE RATE:		MTTF (YRS): 45733		QUANTITY: 236		FAILS: 0	FITS: 2.5