



10/8/2010

**RELIABILITY MONITOR REPORT
FOR**

X3 Single Gate Ox, HRI (S18)

MAXIM Integrated Products

**120 San Gabriel Dr.
Sunnyvale, CA 94086**

**This Report was prepared by
Maxim 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:

MAX14568EEW	MAX17116EVC+	MAX17491GTA+	MAX17491GTA+T	MAX17492EGD
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 18174 QUANTITY: 237 FAILS: 0 FITS: 6.3

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 10/1/2009 and 9/30/2010 .

Process Information:

Process Description: X3 Single Gate Ox, HRI (S18)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1003	MAX17491GTA+T	135C	548 HRS	80	0	SZGZCQ001DF
HIGH TEMP OP LIFE	1013	MAX17491GTA+T	135C	1000 HRS	79	0	SZGZCQ002DB
HIGH TEMP OP LIFE	1015	MAX17491GTA+	135C	500 HRS	78	0	SZGZCQ003CB
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1003	MAX17491GTA+T	150C	1000 HRS	80	0	SZGZCQ001DF
STORAGE LIFE	1009	MAX17492EGD+	150C	1000 HRS	77	0	SC4ZBQ001Q1
STORAGE LIFE	1009	MAX17492EGD+	150C	1000 HRS	76	0	SC4ZBQ001Q2
STORAGE LIFE	1009	MAX17492EGD+	150C	1000 HRS	77	0	SC4ZBQ001Q3
STORAGE LIFE	1013	MAX17491GTA+T	150C	1000 HRS	80	0	SZGZCQ002DB
STORAGE LIFE	1015	MAX17491GTA+	150C	1000 HRS	80	0	SZGZCQ003CB
STORAGE LIFE	N/A	MAX14568EEWA+T	150C	1000 HRS	77	0	SK9ZAQ001EH
STORAGE LIFE	N/A	MAX14568EEWA+T	150C	1000 HRS	77	0	SK9ZAQ001DC
STORAGE LIFE	N/A	MAX14568EEWA+T	150C	500 HRS	77	0	SK9ZAQ001GA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1003	MAX17491GTA+T	-65C TO 150C	500 CYS	80	0	SZGZCQ001DF
TEMP CYCLE, 5' RAMP, 10' DWELL	1007	MAX17116EVC+T	-65C TO 150C	1000 CYS	77	0	SZVZDQ002Q1

TEMP CYCLE, 5' RAMP, 10' DWELL	1007	MAX17116EVC+T	-65C TO 150C	1000	CYS	77	0	SZVZDQ002Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1007	MAX17116EVC+T	-65C TO 150C	1000	CYS	77	0	SZVZDQ002Q3
TEMP CYCLE, 5' RAMP, 10' DWELL	1009	MAX17492EGD+	-65C TO 150C	500	CYS	77	0	SC4ZBQ001Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1013	MAX17491GTA+T	-65C TO 150C	500	CYS	80	0	SZGZCQ002DB
TEMP CYCLE, 5' RAMP, 10' DWELL	1015	MAX17491GTA+	-65C TO 150C	500	CYS	80	0	SZGZCQ003CB
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX14568EEWA+T	-40C TO +125C	1000	CYS	77	0	SK9ZAQ001EH
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX14568EEWA+T	-40C TO +125C	1000	CYS	77		SK9ZAQ001DC
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX14568EEWA+T	-40C TO +125C	1000	CYS	77	0	SK9ZAQ001GA
TEMP CYCLE, 5' RAMP, 10' DWELL	N/A	MAX14568EEWA+T	-65C TO 150C	500	CYS	77	0	SK9ZAQ001GA
Total:							0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
MOISTURE SOAK	1007	MAX17116EVC+T	85 C/85% R.H.	500	HRS	45	0	SZVZDQ002Q1
MOISTURE SOAK	1007	MAX17116EVC+T	85 C/85% R.H.	500	HRS	45	0	SZVZDQ002Q2
MOISTURE SOAK	1007	MAX17116EVC+T	85 C/85% R.H.	1000	HRS	45	0	SZVZDQ002Q3
Total:						0		
FAILURE RATE:	MTTF (YRS): 18174		QUANTITY: 237	FAILS: 0		FITS: 6.3		