



10/8/10

RELIABILITY MONITOR REPORT
FOR

MFN Poly Emitter Complementary Bipolar (CB20)

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:

MAX4166ELA+T	MAX913CSA+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 41663 QUANTITY: 224 FAILS: 0 FITS: 2.7

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

Process Information:

Process Description: MFN Poly Emitter Complementary Bipolar (CB20)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1005	MAX4166ELA+T	135C	1000 HRS	48	0	NB6ACA080Q4
HIGH TEMP OP LIFE	1005	MAX4166ELA+T	135C	1000 HRS	48	0	NB6ACA080Q5
HIGH TEMP OP LIFE	1005	MAX4166ELA+T	135C	1000 HRS	48	0	NB6ACA080Q6
HIGH TEMP OP LIFE	1023	MAX913CSA+	135C	1000 HRS	80	0	NKE0C2052B
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1005	MAX4166ELA+T	150C	1000 HRS	80	0	NB6ACA080Q4
STORAGE LIFE	1005	MAX4166ELA+T	150C	1000 HRS	80	0	NB6ACA080Q5
STORAGE LIFE	1005	MAX4166ELA+T	150C	1000 HRS	80	0	NB6ACA080Q6
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1005	MAX4166ELA+T	-65C TO 150C	1000 CYS	80	0	NB6ACA080Q4
TEMP CYCLE, 5' RAMP, 10' DWELL	1005	MAX4166ELA+T	-65C TO 150C	1000 CYS	80	0	NB6ACA080Q5
TEMP CYCLE, 5' RAMP, 10' DWELL	1005	MAX4166ELA+T	-65C TO 150C	1000 CYS	80	0	NB6ACA080Q6
Total:						0	

FAILURE RATE: MTTF (YRS): 41663 QUANTITY: 224 FAILS: 0 FITS: 2.7