7/10/2015

RELIABILITY MONITOR REPORT
FOR

MFN 80V Bipolar CMOS DMOS (BCD88)

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:

MAX15006AAT	MAX15006BATT	MAX16823AUE

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 40404 QUANTITY: 329 FAILS: 0 FITS: 2.8

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 7/1/2014 and 6/30/2015 .

Process Information:

Process Description: MFN 80V Bipolar CMOS DMOS (BCD88)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1422	MAX15006BATT+	135°C	1000	HRS	47	0	JADYBA225EL
HIGH TEMP OP LIFE	1435	MAX15006AATT+	135°C	1000	HRS	47	0	JADZBA231C
HIGH TEMP OP LIFE	1503	MAX16823AUE+	135°C	500	HRS	78	0	JEOZC2226H
HIGH TEMP OP LIFE	1503	MAX16823AUE+	135°C	500	HRS	78	0	JEOZC2226I
HIGH TEMP OP LIFE	1503	MAX16823AUE+	135°C	500	HRS	79	0	JEOZC2226A
					Total:		**0**	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1422	MAX15006BATT+	150°C	1000	HRS	80	0	JADYBA225EL
STORAGE LIFE	1435	MAX15006AATT+	150°C	1000	HRS	80	0	JADZBA231C
					Total:		**0**	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1422	MAX15006BATT+	-65C TO +150C (Condition C)	1000	CYS	65	0	JADYBA225EL
TEMP CYCLE, 5' RAMP, 10' DWELL	1435	MAX15006AATT+	-65C TO +150C (Condition C)	500	CYS	80	0	JADZBA231C
					Total:		**0**	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.

BIASED MOISTURE	1422	MAX15006BATT+	130C, 85% R.H.	96	HRS	80	0	JADYBA225EL
BIASED MOISTURE	1435	MAX15006AATT+	130C, 85% R.H.	96	HRS	80	1	JADZBA231C
					Total:		**1**	

FAILURE RATE: MTTF (YRS): 40404 QUANTITY: 329 FAILS: 0 FITS: 2.8