

RELIABILITY MONITOR REPORT FOR

DAL 2.0µm Silicon Gate CMOS

MAXIM Integrated Products

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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:

DS1284

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 27143 FITS: 4.2

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 10/1/2007 and 9/30/2008 .

Process Information:

Process Description: DAL 2.0µm Silicon Gate CMOS

CODE VEHICLE

		<u> </u>								
OPERATING LIFE										
DESCRIPTION		TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.			
HIGH TEMP OP LIFE	0810	DS1284	125C, 7.0 VOLTS	1000 HRS	77	0	ZQ732115AC			
HIGH TEMP OP LIFE	0810	DS1284	125C, 7.0 VOLTS	1000 HRS	77	0	ZQ732115AD			
HIGH TEMP OP LIFE	0810	DS1284	125C, 7.0 VOLTS	1000 HRS	77	0	ZQ732115AE			
				Total:		0				
STORAGE LIFE										
DESCRIPTION		TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.			
STORAGE LIFE	0810	DS1284	150C	1000 HRS	77	0	ZQ732115AC			
STORAGE LIFE	0810	DS1284	150C	1000 HRS	77	0	ZQ732115AD			
STORAGE LIFE	0810	DS1284	150C	1000 HRS	77	0	ZQ732115AE			
				То	otal:	0				
TEMPERATURE CYCLE										
DESCRIPTION		TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.			
TEMP CYCLE, 5' RAMP, 10' DWELL	0810	DS1284	-55C TO 125C	1000 CYS	77	0	ZQ732115AC			
TEMP CYCLE, 5' RAMP, 10' DWELL	0810	DS1284	-55C TO 125C	1000 CYS	77	0	ZQ732115AD			
TEMP CYCLE, 5' RAMP, 10' DWELL	0810	DS1284	-55C TO 125C	1000 CYS	77	0	ZQ732115AE			
				Total:		0				
TEMPERATURE HUMIDITY BIAS										
DESCRIPTION	DATE	TEST	CONDITION	READPOINT	QUANTITY	FAILS	LOT			

NO.

BIASED MOISTURE	0810	DS1284	85/85, 5.5 VOLTS	1000 HRS	77	0	ZQ732115AC
BIASED MOISTURE	0810	DS1284	85/85, 5.5 VOLTS	1000 HRS	77	0	ZQ732115AD
BIASED MOISTURE	0810	DS1284	85/85, 5.5 VOLTS	1000 HRS	77	0	ZQ732115AE
				Total:		0	

FAILURE RATE: MTTF (YRS): 27143 FITS: 4.2