



1/25/2008

**RELIABILITY MONITOR REPORT  
FOR**

**SVL SiGe HBT 0.35 $\mu$ m CMOS**

**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:

MAX2141ETH	MAX2141ETH+	MAX2170ETL+	MAX2831ETM+	MAX3580ETJ+
MAX3673ETN				

The calculated failure rate for devices using this process is:

**FAILURE RATE:**                      **MTTF (YRS): 153088**                      **FITS: 0.7**

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 and

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**Process Information:**

Process Description:                      SVL SiGe HBT 0.35µm CMOS

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0535	MAX3673ETN	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0541	MAX2141ETH	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	06	MAX2141ETH+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0614	MAX2141ETH	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0619	MAX2141ETH	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0643	MAX2141ETH+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0644	MAX2141ETH+	135C, 5.25V	1000 HRS	47	0	
HIGH TEMP OP LIFE	0702	MAX2831ETM+	135C, 5.25V	1000 HRS	49	0	
HIGH TEMP OP LIFE	0706	MAX2141ETH+	135C, 5.25V	1000 HRS	48	0	
		MAX3580ETJ+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0719	MAX2170ETL+	135C, 5.25V	1000 HRS	48	0	
HIGH TEMP OP LIFE	0732	MAX2141ETH+	135C, 5.25V	1000 HRS	140	0	
HIGH TEMP OP LIFE	N/A	MAX2141ETH	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	35	0	
			135C, 5.25V	1000 HRS	42	0	
				<b>Total:</b>		<b>0</b>	

**FAILURE RATE:**                      **MTTF (YRS): 153088**                      **FITS: 0.7**