

4/17/2013



RELIABILITY MONITOR REPORT  
FOR

**TSOC Package**

**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 Package Reliability Monitor. The specific assemblies included in this package monitor are:

ASSY SITE	PINS PACKAGE
Cirtek	6 TSOC (Pb-Free)

The calculated failure rate for this assembly is:

**FAILURE RATE: MTTF (YRS): 3542 FITS: 32.2**

The parameters used to calculate this failure rate are as follows:

**Cf: 60% Ea: 0.7 Tu: 25 °C**

The reliability data follows. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. The reliability data section includes the latest data available. This report covers data between 4/1/2012 and 3/31/2013.

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**Assembly Information:**

Package Type: TSOC (Pb-Free)  
Date Code Range: 1110 to 1243

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1218	DS28E25	125C, 3.6 VOLTS	192 HRS	77	0	
HIGH TEMP OP LIFE	1243	DS28E05	125C, 3.6 VOLTS	192 HRS	80	0	
<b>Total:</b>						<b>0</b>	

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**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HAST, NO BIAS	1110	DS2431	130C, 85% R.H.	96 HRS	80	0	
HAST, NO BIAS	1124	DS28E01	130C, 85% R.H.	96 HRS	80	0	
HAST, NO BIAS	1124	DS28E01	130C, 85% R.H.	96 HRS	80	0	
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 3542 FITS: 32.2**