



产品简介

MAX809xEUR+T 系列是一款采用数字系统电路设计技术实现的三端口低电压复位检测监控器，可以对主机处理器提供一个复位监控信号。该系列复位检测监控器能监控 1.0V~5.0V 的固定电压，应用简单，无需外部器件。

产品特点

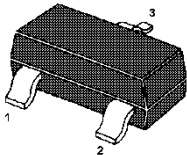
- 低功耗：2uA（典型值）
- 宽工作电压范围：1V~6.0V
- 具有VCC瞬态抗干扰
- 无需外部元件
- 内置复位延时时间500ms（典型值）
- 高精度复位电压值：±2.5%
- 小体积封装：SOT-23

产品用途

- 电池供电设备
- 掉电检测器
- 电脑、微机处理器
- 非易失性RAM 信号存储保护器
- 临界MP电源监控
- 嵌入式系统

封装形式和管脚定义功能

管脚序号	管脚定义	功能说明
1	GND	芯片接地端
3	VCC	芯片输入端
2	RESET	复位输出端



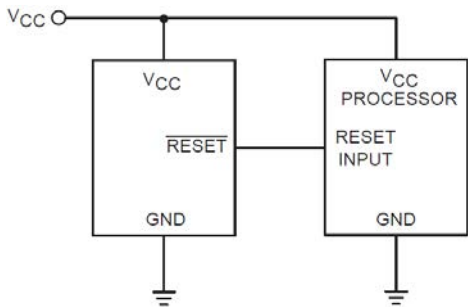
SOT-23

型号选择

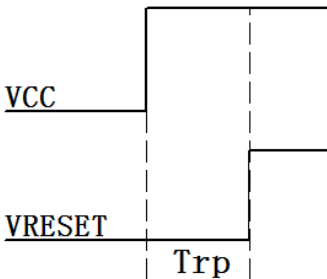
型号	最高输入电压(V)	复位电压(V)	容差	封装形式
MAX809LEUR+T	6.0	4.63	±2.5%	SOT-23
MAX809MEUR+T	6.0	4.38		
MAX809JEUR+T	6.0	4.00		
MAX809TEUR+T	6.0	3.08		
MAX809SEUR+T	6.0	2.93		
MAX809REUR+T	6.0	2.63		



应用电路



上电复位时间



极限参数

项目	符号	说明	极限值	单位
电压	VCC	输入电压	6.5	V
	VRESET	复位输出电压	-0.3~VCC+0.3	V
功耗	PD	SOT-23	200	mW
温度	Tw	工作温度范围	-20—70	°C
	Tc	存储温度范围	-50—125	
	Th	焊接温度	260	°C,10s

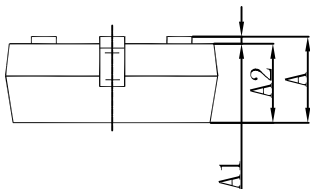
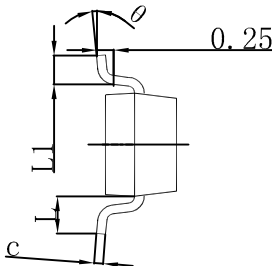
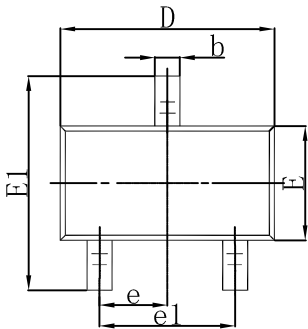
电学特性

Ta=25°C

符号	参数	测试条件	最小	典型	最大	单位
VCC	工作电压	-	1.0	-	6.0	V
ICC	静态电流	VCC=5.5V,No Load	-	2	5	uA
Vth	检测电压	Vth=2.63V	0.975Vth	Vth	1.025Vth	V
Trd	下降沿时间	VCC=Vth - 100mV	-	150	-	ns
Trp	上复位时间	VCC=0to3.5V,No Load	100	500	900	ms
VOL	复位输出低电压	VCC=Vthmin, ISINK=1.2mA	-	-	0.3	V
VOH	复位输出高电压	VCC>Vthmax, ISOURCE=500uA	0.8VCC	-	-	V
ΔVth/ (Vth*ΔTa)	温度系数	-20°C≤Ta≤60°C	-	±200	-	ppm/°C



封装信息
SOT-23



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°



Attention

- Any and all HUA XUAN YANG ELECTRONICS products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your HUA XUAN YANG ELECTRONICS representative nearest you before using any HUA XUAN YANG ELECTRONICS products described or contained herein in such applications.
- HUA XUAN YANG ELECTRONICS assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all HUA XUAN YANG ELECTRONICS products described or contained herein.
- Specifications of any and all HUA XUAN YANG ELECTRONICS products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer's products or equipment.
- HUA XUAN YANG ELECTRONICS CO.,LTD. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with some probability. It is possible that these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits and error prevention circuits for safe design, redundant design, and structural design.
- In the event that any or all HUA XUAN YANG ELECTRONICS products(including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from the authorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of HUA XUAN YANG ELECTRONICS CO.,LTD.
- Information (including circuit diagrams and circuit parameters) herein is for example only ; it is not guaranteed for volume production. HUA XUAN YANG ELECTRONICS believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the HUA XUAN YANG ELECTRONICS product that you intend to use.