



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： $\pm 2.5\%$
- 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

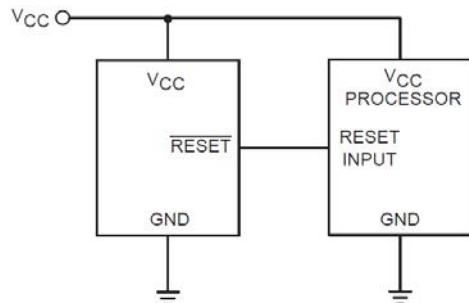


型号选择

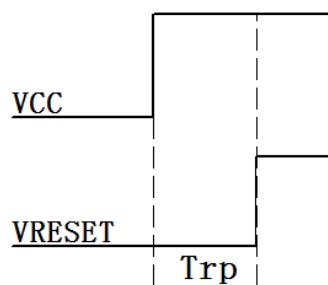
型号	最高输入电压(V)	复位电压(V)	容差	封装形式
MAX809LEUR+T	6.0	4.63	$\pm 2.5\%$	SOT-23
MAX809MEUR+T	6.0	4.38		
MAX809JEUR+T	6.0	4.00		
MAX809TEUR+T	6.0	3.08		
MAX809SEUR+T	6.0	2.93		
MAX809REUR+T	6.0	2.63		



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	V _{CC}	输入电压	6.5	V
	V _{RESET}	复位输出电压	-0.3~V _{CC} +0.3	V
功耗	P _D	SOT-23	200	mW
温度	T _w	工作温度范围	-20~70	°C
	T _c	存储温度范围	-50~125	
	T _h	焊接温度	260	°C, 10s

电气特性

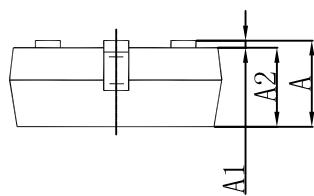
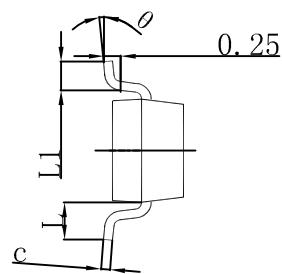
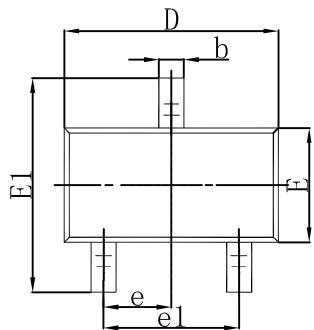
T_a=25°C

符号	参数	测试条件	最小	典型	最大	单位
V _{CC}	工作电压	-	1.0	-	6.0	V
I _{CC}	静态电流	V _{CC} =5.5V, No Load	-	2	5	uA
V _{th}	检测电压	V _{th} =2.63V	0.975V _{th}	V _{th}	1.025V _{th}	V
T _{rd}	下降沿时间	V _{CC} =V _{th} - 100mV	-	150	-	ns
T _{rp}	上复位时间	V _{CC} =0 to 3.5V, No Load	100	500	900	ms
V _{OL}	复位输出低电压	V _{CC} =V _{th} min, I _{SINK} =1.2mA	-	-	0.3	V
V _{OH}	复位输出高电压	V _{CC} >V _{th} max, I _{SOURCE} =500uA	0.8V _{CC}	-	-	V
V _{th} / (V _{th} * T _a)	温度系数	-20°C≤T _a ≤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°



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