

2 复位IC

内置延迟电路的CMOS系统复位IC

PST87XX / 88XX 系列

概要

本IC是内置延迟电路的系统复位IC。由于内置了延迟电路，因此不需要外置电容器，搭载小型封装，可实现实装空间的小型化。

用途

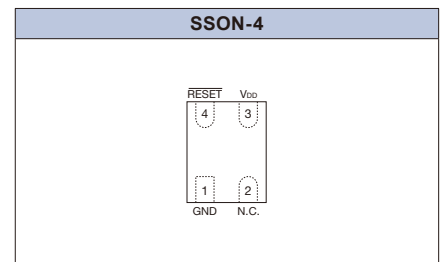
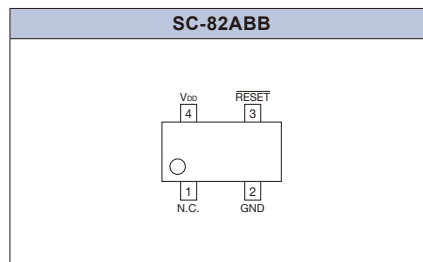
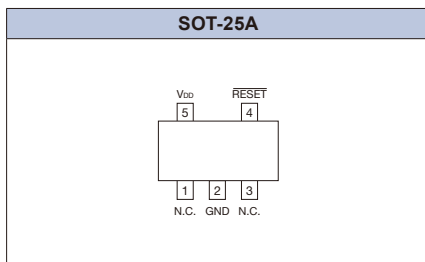
- (1) 微控制器、CPU、MPU的复位电路
- (2) 逻辑电路的复位电路
- (3) 电池电压检测电路
- (4) 备用电源的切换电路
- (5) 电平检测电路
- (6) 机械类的复位电路

特点

(在没有特别注明时, Topr=+25℃)

- | | |
|------------|--------------------------------------------------------|
| (1) 工作电源电压 | 1.0 ~ 5.5V |
| (2) 消耗电流 | 1μA typ. |
| (3) 检测电压范围 | 1.6 ~ 4.6V |
| (4) 检测电压精度 | ±1.5% |
| (5) 滞后电压 | 50mV typ. |
| (6) 解除延迟时间 | 20、50、100、200ms |
| (7) 输出方式 | PST87xx CMOS输出、Active-Low
PST88xx 开路漏极输出、Active-Low |

封装

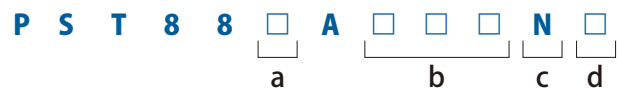


型号的构成

■ CMOS输出型



■ 开路漏极输出型



a		b		d		f	
延迟时间等级		检测电压等级		封装		包装形态	
0	20ms	160	VDET=1.60V	N	SOT-25A	R	R存放
1	50ms	}	}	U	SC-82	L	L存放
2	100ms	460	VDET=4.60V	R	SSON-4		
3	200ms						

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检测电压	精度	延迟时间 (typ.)	CMOS输出			开路漏极输出		
			SOT-25A (3,000个 / 卷)	SC-82 (3,000个 / 卷)	SSON-4 (3,000个 / 卷)	SOT-25A (3,000个 / 卷)	SC-82 (3,000个 / 卷)	SSON-4 (3,000个 / 卷)
1.60V	±1.5%	20ms	PST870A160NR	PST870A160UR	PST870A160RL	PST880A160NR	PST880A160UR	PST880A160RL
		50ms	PST871A160NR	PST871A160UR	PST871A160RL	PST881A160NR	PST881A160UR	PST881A160RL
		100ms	PST872A160NR	PST872A160UR	PST872A160RL	PST882A160NR	PST882A160UR	PST882A160RL
		200ms	PST873A160NR	PST873A160UR	PST873A160RL	PST883A160NR	PST883A160UR	PST883A160RL
1.70V	±1.5%	20ms	PST870A170NR	PST870A170UR	PST870A170RL	PST880A170NR	PST880A170UR	PST880A170RL
		50ms	PST871A170NR	PST871A170UR	PST871A170RL	PST881A170NR	PST881A170UR	PST881A170RL
		100ms	PST872A170NR	PST872A170UR	PST872A170RL	PST882A170NR	PST882A170UR	PST882A170RL
		200ms	PST873A170NR	PST873A170UR	PST873A170RL	PST883A170NR	PST883A170UR	PST883A170RL
1.80V	±1.5%	20ms	PST870A180NR	PST870A180UR	PST870A180RL	PST880A180NR	PST880A180UR	PST880A180RL
		50ms	PST871A180NR	PST871A180UR	PST871A180RL	PST881A180NR	PST881A180UR	PST881A180RL
		100ms	PST872A180NR	PST872A180UR	PST872A180RL	PST882A180NR	PST882A180UR	PST882A180RL
		200ms	PST873A180NR	PST873A180UR	PST873A180RL	PST883A180NR	PST883A180UR	PST883A180RL
1.90V	±1.5%	20ms	PST870A190NR	PST870A190UR	PST870A190RL	PST880A190NR	PST880A190UR	PST880A190RL
		50ms	PST871A190NR	PST871A190UR	PST871A190RL	PST881A190NR	PST881A190UR	PST881A190RL
		100ms	PST872A190NR	PST872A190UR	PST872A190RL	PST882A190NR	PST882A190UR	PST882A190RL
		200ms	PST873A190NR	PST873A190UR	PST873A190RL	PST883A190NR	PST883A190UR	PST883A190RL
2.00V	±1.5%	20ms	PST870A200NR	PST870A200UR	PST870A200RL	PST880A200NR	PST880A200UR	PST880A200RL
		50ms	PST871A200NR	PST871A200UR	PST871A200RL	PST881A200NR	PST881A200UR	PST881A200RL
		100ms	PST872A200NR	PST872A200UR	PST872A200RL	PST882A200NR	PST882A200UR	PST882A200RL
		200ms	PST873A200NR	PST873A200UR	PST873A200RL	PST883A200NR	PST883A200UR	PST883A200RL
2.10V	±1.5%	20ms	PST870A210NR	PST870A210UR	PST870A210RL	PST880A210NR	PST880A210UR	PST880A210RL
		50ms	PST871A210NR	PST871A210UR	PST871A210RL	PST881A210NR	PST881A210UR	PST881A210RL
		100ms	PST872A210NR	PST872A210UR	PST872A210RL	PST882A210NR	PST882A210UR	PST882A210RL
		200ms	PST873A210NR	PST873A210UR	PST873A210RL	PST883A210NR	PST883A210UR	PST883A210RL
2.20V	±1.5%	20ms	PST870A220NR	PST870A220UR	PST870A220RL	PST880A220NR	PST880A220UR	PST880A220RL
		50ms	PST871A220NR	PST871A220UR	PST871A220RL	PST881A220NR	PST881A220UR	PST881A220RL
		100ms	PST872A220NR	PST872A220UR	PST872A220RL	PST882A220NR	PST882A220UR	PST882A220RL
		200ms	PST873A220NR	PST873A220UR	PST873A220RL	PST883A220NR	PST883A220UR	PST883A220RL
2.30V	±1.5%	20ms	PST870A230NR	PST870A230UR	PST870A230RL	PST880A230NR	PST880A230UR	PST880A230RL
		50ms	PST871A230NR	PST871A230UR	PST871A230RL	PST881A230NR	PST881A230UR	PST881A230RL
		100ms	PST872A230NR	PST872A230UR	PST872A230RL	PST882A230NR	PST882A230UR	PST882A230RL
		200ms	PST873A230NR	PST873A230UR	PST873A230RL	PST883A230NR	PST883A230UR	PST883A230RL
2.40V	±1.5%	20ms	PST870A240NR	PST870A240UR	PST870A240RL	PST880A240NR	PST880A240UR	PST880A240RL
		50ms	PST871A240NR	PST871A240UR	PST871A240RL	PST881A240NR	PST881A240UR	PST881A240RL
		100ms	PST872A240NR	PST872A240UR	PST872A240RL	PST882A240NR	PST882A240UR	PST882A240RL
		200ms	PST873A240NR	PST873A240UR	PST873A240RL	PST883A240NR	PST883A240UR	PST883A240RL
2.50V	±1.5%	20ms	PST870A250NR	PST870A250UR	PST870A250RL	PST880A250NR	PST880A250UR	PST880A250RL
		50ms	PST871A250NR	PST871A250UR	PST871A250RL	PST881A250NR	PST881A250UR	PST881A250RL
		100ms	PST872A250NR	PST872A250UR	PST872A250RL	PST882A250NR	PST882A250UR	PST882A250RL
		200ms	PST873A250NR	PST873A250UR	PST873A250RL	PST883A250NR	PST883A250UR	PST883A250RL
2.60V	±1.5%	20ms	PST870A260NR	PST870A260UR	PST870A260RL	PST880A260NR	PST880A260UR	PST880A260RL
		50ms	PST871A260NR	PST871A260UR	PST871A260RL	PST881A260NR	PST881A260UR	PST881A260RL
		100ms	PST872A260NR	PST872A260UR	PST872A260RL	PST882A260NR	PST882A260UR	PST882A260RL
		200ms	PST873A260NR	PST873A260UR	PST873A260RL	PST883A260NR	PST883A260UR	PST883A260RL
2.70V	±1.5%	20ms	PST870A270NR	PST870A270UR	PST870A270RL	PST880A270NR	PST880A270UR	PST880A270RL
		50ms	PST871A270NR	PST871A270UR	PST871A270RL	PST881A270NR	PST881A270UR	PST881A270RL
		100ms	PST872A270NR	PST872A270UR	PST872A270RL	PST882A270NR	PST882A270UR	PST882A270RL
		200ms	PST873A270NR	PST873A270UR	PST873A270RL	PST883A270NR	PST883A270UR	PST883A270RL
2.80V	±1.5%	20ms	PST870A280NR	PST870A280UR	PST870A280RL	PST880A280NR	PST880A280UR	PST880A280RL
		50ms	PST871A280NR	PST871A280UR	PST871A280RL	PST881A280NR	PST881A280UR	PST881A280RL
		100ms	PST872A280NR	PST872A280UR	PST872A280RL	PST882A280NR	PST882A280UR	PST882A280RL
		200ms	PST873A280NR	PST873A280UR	PST873A280RL	PST883A280NR	PST883A280UR	PST883A280RL
2.90V	±1.5%	20ms	PST870A290NR	PST870A290UR	PST870A290RL	PST880A290NR	PST880A290UR	PST880A290RL
		50ms	PST871A290NR	PST871A290UR	PST871A290RL	PST881A290NR	PST881A290UR	PST881A290RL
		100ms	PST872A290NR	PST872A290UR	PST872A290RL	PST882A290NR	PST882A290UR	PST882A290RL
		200ms	PST873A290NR	PST873A290UR	PST873A290RL	PST883A290NR	PST883A290UR	PST883A290RL
3.00V	±1.5%	20ms	PST870A300NR	PST870A300UR	PST870A300RL	PST880A300NR	PST880A300UR	PST880A300RL
		50ms	PST871A300NR	PST871A300UR	PST871A300RL	PST881A300NR	PST881A300UR	PST881A300RL
		100ms	PST872A300NR	PST872A300UR	PST872A300RL	PST882A300NR	PST882A300UR	PST882A300RL
		200ms	PST873A300NR	PST873A300UR	PST873A300RL	PST883A300NR	PST883A300UR	PST883A300RL

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检测电压	精度	延迟时间 (typ.)	CMOS输出			开路漏极输出		
			SOT-25A (3,000个 / 卷)	SC-82 (3,000个 / 卷)	SSON-4 (3,000个 / 卷)	SOT-25A (3,000个 / 卷)	SC-82 (3,000个 / 卷)	SSON-4 (3,000个 / 卷)
3.10V	±1.5%	20ms	PST870A310NR	PST870A310UR	PST870A310RL	PST880A310NR	PST880A310UR	PST880A310RL
		50ms	PST871A310NR	PST871A310UR	PST871A310RL	PST881A310NR	PST881A310UR	PST881A310RL
		100ms	PST872A310NR	PST872A310UR	PST872A310RL	PST882A310NR	PST882A310UR	PST882A310RL
		200ms	PST873A310NR	PST873A310UR	PST873A310RL	PST883A310NR	PST883A310UR	PST883A310RL
3.20V	±1.5%	20ms	PST870A320NR	PST870A320UR	PST870A320RL	PST880A320NR	PST880A320UR	PST880A320RL
		50ms	PST871A320NR	PST871A320UR	PST871A320RL	PST881A320NR	PST881A320UR	PST881A320RL
		100ms	PST872A320NR	PST872A320UR	PST872A320RL	PST882A320NR	PST882A320UR	PST882A320RL
		200ms	PST873A320NR	PST873A320UR	PST873A320RL	PST883A320NR	PST883A320UR	PST883A320RL
3.30V	±1.5%	20ms	PST870A330NR	PST870A330UR	PST870A330RL	PST880A330NR	PST880A330UR	PST880A330RL
		50ms	PST871A330NR	PST871A330UR	PST871A330RL	PST881A330NR	PST881A330UR	PST881A330RL
		100ms	PST872A330NR	PST872A330UR	PST872A330RL	PST882A330NR	PST882A330UR	PST882A330RL
		200ms	PST873A330NR	PST873A330UR	PST873A330RL	PST883A330NR	PST883A330UR	PST883A330RL
3.40V	±1.5%	20ms	PST870A340NR	PST870A340UR	PST870A340RL	PST880A340NR	PST880A340UR	PST880A340RL
		50ms	PST871A340NR	PST871A340UR	PST871A340RL	PST881A340NR	PST881A340UR	PST881A340RL
		100ms	PST872A340NR	PST872A340UR	PST872A340RL	PST882A340NR	PST882A340UR	PST882A340RL
		200ms	PST873A340NR	PST873A340UR	PST873A340RL	PST883A340NR	PST883A340UR	PST883A340RL
3.50V	±1.5%	20ms	PST870A350NR	PST870A350UR	PST870A350RL	PST880A350NR	PST880A350UR	PST880A350RL
		50ms	PST871A350NR	PST871A350UR	PST871A350RL	PST881A350NR	PST881A350UR	PST881A350RL
		100ms	PST872A350NR	PST872A350UR	PST872A350RL	PST882A350NR	PST882A350UR	PST882A350RL
		200ms	PST873A350NR	PST873A350UR	PST873A350RL	PST883A350NR	PST883A350UR	PST883A350RL
3.60V	±1.5%	20ms	PST870A360NR	PST870A360UR	PST870A360RL	PST880A360NR	PST880A360UR	PST880A360RL
		50ms	PST871A360NR	PST871A360UR	PST871A360RL	PST881A360NR	PST881A360UR	PST881A360RL
		100ms	PST872A360NR	PST872A360UR	PST872A360RL	PST882A360NR	PST882A360UR	PST882A360RL
		200ms	PST873A360NR	PST873A360UR	PST873A360RL	PST883A360NR	PST883A360UR	PST883A360RL
3.70V	±1.5%	20ms	PST870A370NR	PST870A370UR	PST870A370RL	PST880A370NR	PST880A370UR	PST880A370RL
		50ms	PST871A370NR	PST871A370UR	PST871A370RL	PST881A370NR	PST881A370UR	PST881A370RL
		100ms	PST872A370NR	PST872A370UR	PST872A370RL	PST882A370NR	PST882A370UR	PST882A370RL
		200ms	PST873A370NR	PST873A370UR	PST873A370RL	PST883A370NR	PST883A370UR	PST883A370RL
3.80V	±1.5%	20ms	PST870A380NR	PST870A380UR	PST870A380RL	PST880A380NR	PST880A380UR	PST880A380RL
		50ms	PST871A380NR	PST871A380UR	PST871A380RL	PST881A380NR	PST881A380UR	PST881A380RL
		100ms	PST872A380NR	PST872A380UR	PST872A380RL	PST882A380NR	PST882A380UR	PST882A380RL
		200ms	PST873A380NR	PST873A380UR	PST873A380RL	PST883A380NR	PST883A380UR	PST883A380RL
3.90V	±1.5%	20ms	PST870A390NR	PST870A390UR	PST870A390RL	PST880A390NR	PST880A390UR	PST880A390RL
		50ms	PST871A390NR	PST871A390UR	PST871A390RL	PST881A390NR	PST881A390UR	PST881A390RL
		100ms	PST872A390NR	PST872A390UR	PST872A390RL	PST882A390NR	PST882A390UR	PST882A390RL
		200ms	PST873A390NR	PST873A390UR	PST873A390RL	PST883A390NR	PST883A390UR	PST883A390RL
4.00V	±1.5%	20ms	PST870A400NR	PST870A400UR	PST870A400RL	PST880A400NR	PST880A400UR	PST880A400RL
		50ms	PST871A400NR	PST871A400UR	PST871A400RL	PST881A400NR	PST881A400UR	PST881A400RL
		100ms	PST872A400NR	PST872A400UR	PST872A400RL	PST882A400NR	PST882A400UR	PST882A400RL
		200ms	PST873A400NR	PST873A400UR	PST873A400RL	PST883A400NR	PST883A400UR	PST883A400RL
4.10V	±1.5%	20ms	PST870A410NR	PST870A410UR	PST870A410RL	PST880A410NR	PST880A410UR	PST880A410RL
		50ms	PST871A410NR	PST871A410UR	PST871A410RL	PST881A410NR	PST881A410UR	PST881A410RL
		100ms	PST872A410NR	PST872A410UR	PST872A410RL	PST882A410NR	PST882A410UR	PST882A410RL
		200ms	PST873A410NR	PST873A410UR	PST873A410RL	PST883A410NR	PST883A410UR	PST883A410RL
4.20V	±1.5%	20ms	PST870A420NR	PST870A420UR	PST870A420RL	PST880A420NR	PST880A420UR	PST880A420RL
		50ms	PST871A420NR	PST871A420UR	PST871A420RL	PST881A420NR	PST881A420UR	PST881A420RL
		100ms	PST872A420NR	PST872A420UR	PST872A420RL	PST882A420NR	PST882A420UR	PST882A420RL
		200ms	PST873A420NR	PST873A420UR	PST873A420RL	PST883A420NR	PST883A420UR	PST883A420RL
4.30V	±1.5%	20ms	PST870A430NR	PST870A430UR	PST870A430RL	PST880A430NR	PST880A430UR	PST880A430RL
		50ms	PST871A430NR	PST871A430UR	PST871A430RL	PST881A430NR	PST881A430UR	PST881A430RL
		100ms	PST872A430NR	PST872A430UR	PST872A430RL	PST882A430NR	PST882A430UR	PST882A430RL
		200ms	PST873A430NR	PST873A430UR	PST873A430RL	PST883A430NR	PST883A430UR	PST883A430RL
4.40V	±1.5%	20ms	PST870A440NR	PST870A440UR	PST870A440RL	PST880A440NR	PST880A440UR	PST880A440RL
		50ms	PST871A440NR	PST871A440UR	PST871A440RL	PST881A440NR	PST881A440UR	PST881A440RL
		100ms	PST872A440NR	PST872A440UR	PST872A440RL	PST882A440NR	PST882A440UR	PST882A440RL
		200ms	PST873A440NR	PST873A440UR	PST873A440RL	PST883A440NR	PST883A440UR	PST883A440RL
4.50V	±1.5%	20ms	PST870A450NR	PST870A450UR	PST870A450RL	PST880A450NR	PST880A450UR	PST880A450RL
		50ms	PST871A450NR	PST871A450UR	PST871A450RL	PST881A450NR	PST881A450UR	PST881A450RL
		100ms	PST872A450NR	PST872A450UR	PST872A450RL	PST882A450NR	PST882A450UR	PST882A450RL
		200ms	PST873A450NR	PST873A450UR	PST873A450RL	PST883A450NR	PST883A450UR	PST883A450RL