

SOT-23 SCR 可控硅**■Features 特点**

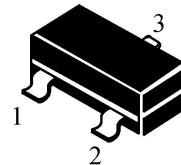
PNPN Silicon Controllable rectifier 硅可控整流器
 Sensitive Gate Trigger 灵敏的门极触发
 Glass passivated Process 玻璃钝化工艺

■Applications 应用

General Purpose Switching 通用开关
 Solid State Relay 固态继电器
 Phase Control 相位控制

SOT-23

1. Cathod (K)
2. Gate (G)
3. Anode (A)

**■Absolute Maximum Ratings 最大额定值**

Characteristic 特性参数	Symbol 符号	Value 额定值	Unit 单位
Peak Repetitive Off-State Voltage ($T_J=-40^{\circ}\text{C}$ to 110°C , Sine Wave, 50 to 60 Hz, Gate Open) 峰值可重复断态耐压	$V_{\text{DRM}}, V_{\text{RRM}}$	400	V
On-State RMS Current 通态均方根电流	$I_{\text{T(RMS)}}$	0.6	A
On-State Average Current 通态平均电流	$I_{\text{T(AV)}}$	0.5	A
Peak Non-Repetitive Surge Current @ 25°C 峰值不可重复浪涌电流	I_{TSM}	6	A
Circuit Fusing Considerations($t=10\text{ms}$) 电路保险指数	I^2t	0.35	A^2s
Peak Gate Current-Forward (Pulse Width $\leq 1\text{ }\mu\text{s}$) 正向门极峰值电流	I_{GM}	1	A
Peak Gate Voltage-Reverse (Pulse Width $\leq 1\text{ }\mu\text{s}$) 反向门极峰值电压	V_{GRM}	5	V
Forward Peak Gate Power (Pulse Width $\leq 1\text{ }\mu\text{s}$) 正向门极峰值功率	P_{GM}	0.1	W
Forward Average Gate Power ($t=8.3\text{ms}$) 正向门极平均功率	$P_{\text{G(AV)}}$	0.1	W
Operating Junction/Storage Temperature 结温和储存温度	T_{stg}	-40~125	$^{\circ}\text{C}$

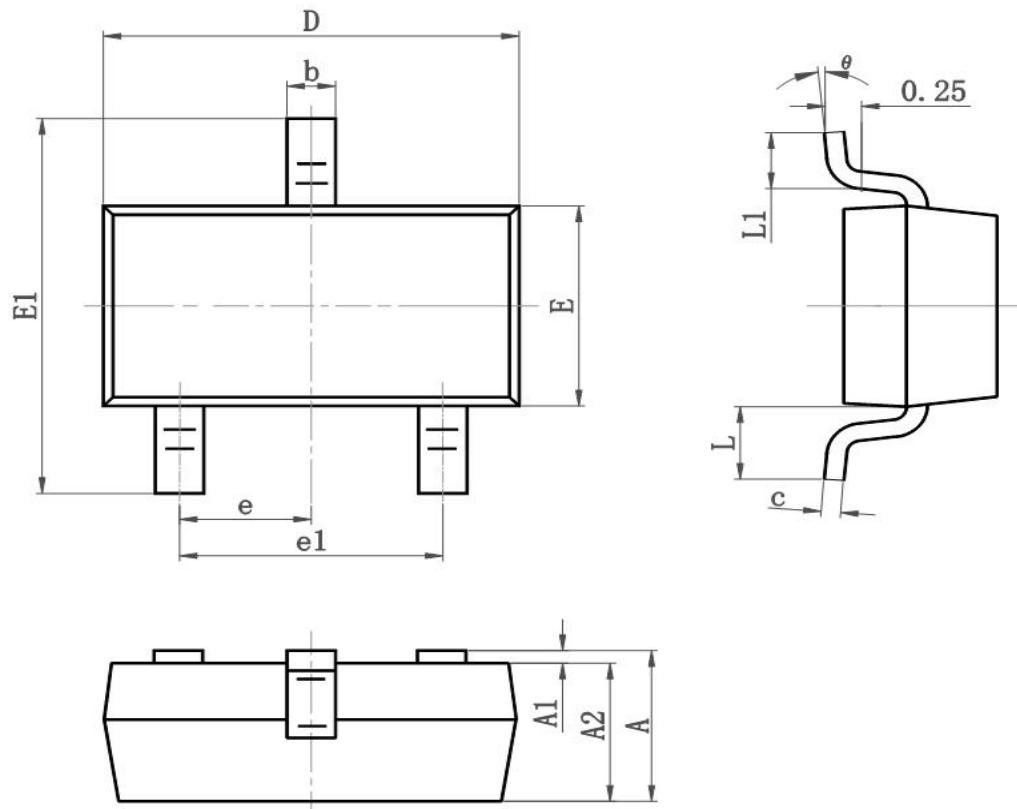
■ Electrical Characteristics 电特性(T_A=25°C unless otherwise noted 如无特殊说明，温度为 25°C)

Characteristic Parameters 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位	Condition 条件
Peak Forward Blocking Current 峰值正向漏电流	I _{DRM}	T _c =25°C T _c =125°C	10 100	μA	V _D =V _{DRM}
Peak Reverse Blocking Current 峰值反向漏电流	I _{RRM}	T _c =25°C T _c =125°C	10 100	μA	V _R =V _{RRM}
Peak Forward On-State Voltage 峰值正向通态电压	V _{TM}		1.7	V	I _{TM} =0.6A
Gate Trigger Current 触发电流	I _{GT}		150	μA	V _{AK} =12V
Gate Trigger Voltage 触发电压	V _{GT}		1.2	V	V _{AK} =12V
Holding Current 维持电流	I _H		5	mA	I _T =50mA
Latch Current 擎住电流	I _L		10	mA	I _G =1.2I _{GT}
Off-state Voltage Change 断态电压临界上升率	dv/dt	20		V/μS	V _D =2/3V _{DRM}
On-state Current Change 通态电流临界上升率	di/dt		50	A/μS	I _{GT} =20mA

■ Device Marking 产品打标

Type	PCR406
Mark	406

■ Dimension 外形封装尺寸



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	0.050	0.055
E1	2.250	2.550	0.089	0.100
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.500	0.600	0.020	0.024
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°