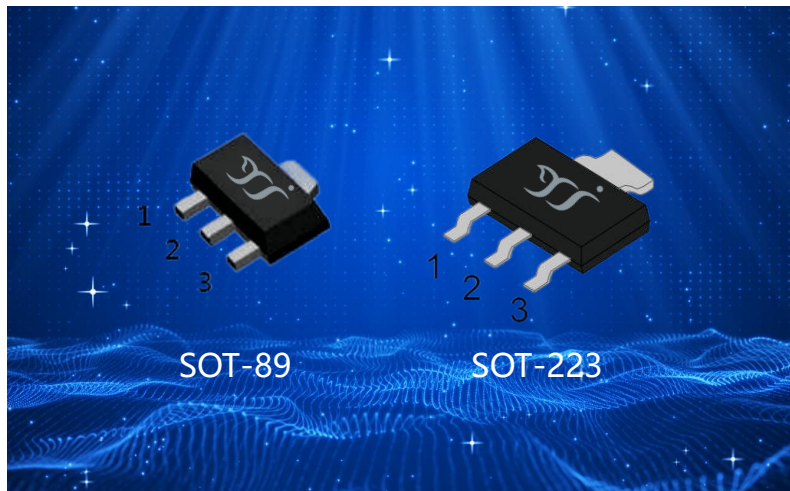


用于漏电保护的小功率可控硅



产品介绍

扬杰科技近日推出了一系列SOT-223和SOT-89 800V小功率可控硅产品。核心优势有：

- 1.超薄封装：SOT-89(厚度1.6mm)、SOT-223（贴装占位 $<48.91\text{mm}^2$ ）；
- 2.安全电压：800V阻断电压，适配220VAC系统；
- 3.兼容性：1A电流多数控制回路需求；低触发电流（ $<10\text{mA}$ ）适合电池供电场景、传感器开关、智能开关、灯具。

新品发布

- 1.采用SOT-89、SOT-223封装，适用于低压电器漏保行业；
- 2.可分为单向和双向：
单向（SCR）：需整流桥配合，成本低但占用空间大；
双向（TRIAC）：直接控制交流，简化PCB布局；
- 3.散热设计：1A电流下功耗 $\approx 1.5\text{W}$ ，SOT-223需敷铜面积 $\geq 50\text{mm}^2$ ；
- 4.触发灵敏度：低触发电流（ $<10\text{mA}$ ）适合电池供电场景

产品规格书详见官网

Product Name	Package	V_{DRM} (V)	ITRMS(A)	IGT I _{ma} x(mA)	IGT II _{ma} x(mA)	IGT III _{max} (mA)	IGT IV _{ma} x(mA)	Tj _{max} (°C)
YC0810S2	SOT-223	800	1	0.2	/	/	/	125
ACY0810S2	SOT-223	800	1	5	5	5	10	125
YC0910S2	SOT-223	900	1	0.2	/	/	/	125
YC0810S3	SOT-89	800	1	0.2	/	/	/	125
ACY0810S3	SOT-89	800	1	5	5	5	10	125
YC0910S3	SOT-89	900	1	0.2	/	/	/	125

产品特点



漏电保护器主单元



智能开关



灯具

典型应用

NEW
PRODUCT

Low Power SCR&TRIAC for Leakage Protection



Product Introduction

YangJie technology recently launched a series of SOT-223 and SOT-89 800V low-power thyristor products. Core advantages:

- 1. Ultra-thin package: SOT-89(thickness 1.6mm), SOT-223 (mount occupy < 48.91mm²);
- 2. Safety voltage: 800V blocking voltage, suitable for 220VAC system;
- 3. Compatibility: 1A current most control loop requirements; Low trigger current (< 10mA) Suitable for battery powered scenarios, sensor switches, smart switches, lamps.

New Product Launch

Product Features

- 1. SOT-89, SOT-223 package, suitable for low-voltage electrical leakage protection industry ;
- 2. Can be divided into SCR and TRIAC:
SCR: need rectifier bridge, low cost but occupy a large space;
TRIAC: Direct control of AC, simplify PCB layout;
- 3.heat dissipation design: 1A current power consumption $\approx 1.5W$, SOT-223 need copper area $\geq 50mm^2$;
- 4.Trigger sensitivity: low trigger current (< 10mA) suitable for battery powered scenarios

Product Name	Package	V _{DRM} (V)	ITRMS(A)	IGT I _{ma} x(mA)	IGTII _{ma} x(mA)	IGTIII _{max} (mA)	IGTIV _{ma} x(mA)	T _{j_max} (°C)
YC0810S2	SOT-223	800	1	0.2	/	/	/	125
ACY0810S2	SOT-223	800	1	5	5	5	10	125
YC0910S2	SOT-223	900	1	0.2	/	/	/	125
YC0810S3	SOT-89	800	1	0.2	/	/	/	125
ACY0810S3	SOT-89	800	1	5	5	5	10	125
YC0910S3	SOT-89	900	1	0.2	/	/	/	125

Please refer to the official website for more details



Main unit of leakage protector



Intelligent switch



Lamps

Typical Applications