

新品发布

低功耗可控硅，赋予小家电更多可能！

针对小家电的小功率可控硅



TO-220AB-1

产品介绍

扬杰科技近日推出了一款TO-220AB-1 800V 小功率可控硅产品。核心优势：

- 1.低导通压降 ($V_{TM} < 1.5V@5A$)：减少功率损耗，提高能效，降低温升。
- 2.高抗浪涌电流 (20A非重复峰值)：适应小家电频繁启停、电机堵转等冲击性负载。
- 3.宽工作温度范围 ($-40^{\circ}C \sim 125^{\circ}C$)：确保高温环境下的稳定运行。

新品发布

- 1.采用TO-220AB-1封装，适用于低至中电流 (1A-10A)、电压 (400v-800v) 的功率场景，如电饭煲、空气炸锅、料理机、豆浆机等；
- 2.优异散热性能：金属散热片直接接触PCB，热阻低 ($R_{\theta JA} < 50^{\circ}C/W$)，降低器件温升；
- 3.标准化设计：兼容现有小家电PCB布局，无需更改电路设计，降低开发成本；
- 4.高机械强度：适用于振动环境 (如搅拌机、破壁机)，避免引脚断裂。

产品特点

更多产品详见官网

Product Name	Package	V_{DRM} (V)	I_{TRMS} (A)	$I_{GT\ I_max}$ (mA)	$I_{GT\ II_max}$ (mA)	$I_{GT\ III_max}$ (mA)	$I_{GT\ IV_max}$ (mA)	T_{j_max} ($^{\circ}C$)
ACYMB0425-06A	TO-220AB-1	600	4	10	10	10	25	125



电饭煲



料理机



空气炸锅

典型应用

Low Power SCR for Small Appliances



Product Introduction

YangJie technology recently launched TO-220AB-1 800V low-power thyristor products. Core advantages:

1. Low on-state voltage drop ($V_{TM} < 1.5V@5A$) : reduces power loss, improves energy efficiency, reduces temperature rise.
2. Anti-surge current (20A non-repetitive peak) : Suitable for frequent starts and stops of small household appliances, motor locked-rotor and other impact loads
3. Wide operating temperature range ($-40^{\circ}C$ to $125^{\circ}C$) : Ensures stable operation in high-temperature environments

New Product Launch

Product Features

1. Suitable for low and medium current (1A-10A), voltage (400v-800v) power scenarios, such as rice cookers, air fryers, cooking machines, soy milk machines, etc.
2. Excellent heat dissipation performance: The metal heat sink is in direct contact with the PCB, with low thermal resistance ($R_{\theta JA} < 50^{\circ}C/W$), reducing the temperature rise of the device.
3. Standardized design: Compatible with the existing PCB layout of small household appliances, no need to change the circuit design, reducing development costs;
4. High mechanical strength: Suitable for vibrating environments (such as mixers and blenders), to prevent pin breakage.

Product Name	Package	V_{DRM} (V)	ITRMS (A)	IGT I_max (mA)	IGT II_max (mA)	IGT III_max (mA)	IGT IV_max (mA)	Tj_max ($^{\circ}C$)
ACYMB0425-06A	TO-220AB-1	600	4	10	10	10	25	125

Please refer to the official website for more details



Rice cooker



cooking machine



air fryer

Typical Applications