

# SIDAC

(95V-330V)

## 产品简介

济南晶恒有限责任公司生产的SIDAC产品（双向交流开关）是一种双向电压触发开关。它的工作原理是，当SIDAC两端施加的电压超过其额定击穿电压时，SIDAC通过一个负阻过程导通，两端电压回落至通态电压，同时将剩余电压向负载输出；当流经SIDAC的电流中断或低于它的维持电流时，SIDAC自动恢复到截止状态。

我公司的SIDAC产品可以提供三种不同的封装形式，分别是DO-15、TO-220AB、SMB。

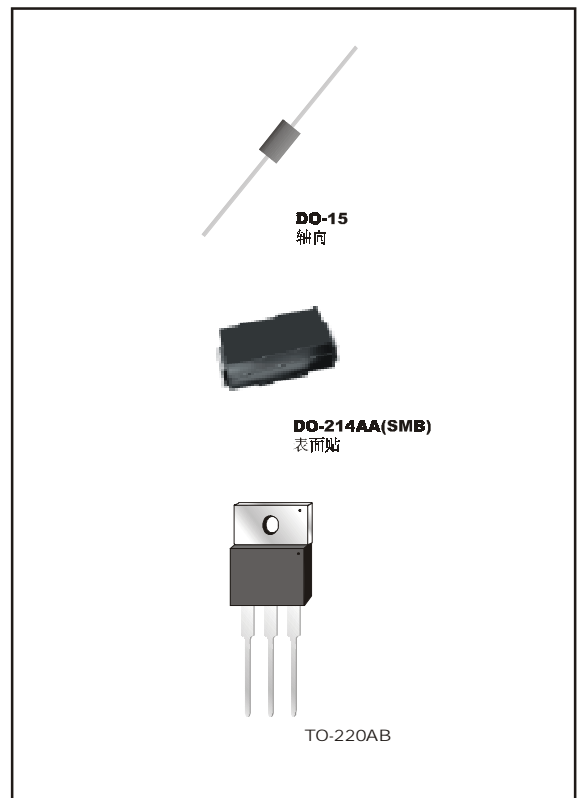
我公司生产的SIDAC的芯片采用玻璃钝化工艺，以确保器件在恶劣环境下能够稳定工作和器件的长期稳定性。

## 功能

双向电压触发  
交流电路功能  
玻璃钝化结  
高浪涌电流容量

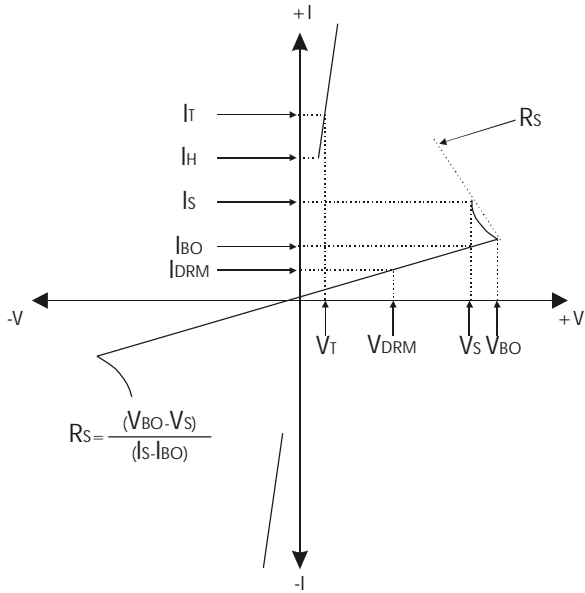
## 应用

金卤灯触发器  
氙灯触发器  
天然气点火器  
过压保护器  
燃油点火器  
脉冲发生器  
荧光灯触发器  
HID(高强度放电) 灯触发器





**V-I 特性**



**Thermal Resistance 热阻**

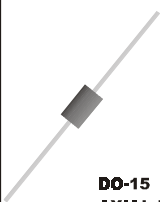

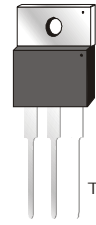
THERMAL RESISTANCE (STEADY STATE) $R_{\theta JC}$ (R $\theta A$ ) °C/W (TYPICAL)		
		
<b>DO-15 AXIAL LEAD</b>	<b>DO-214AA (SMB) SURFACE MOUNT</b>	TO-220AB
18(75)	30(85)	5(35)

FIG.1 Typical Metal Halide Ignitor Circuit  
典型的金卤灯触发起器电路

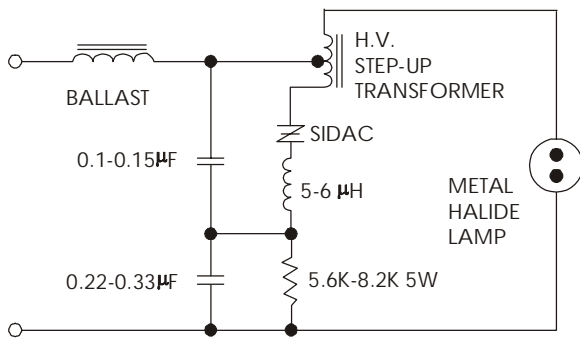




FIG.2 Ignitor Circuit (Low Voltage Input)  
触发器电路 (低电压输入)

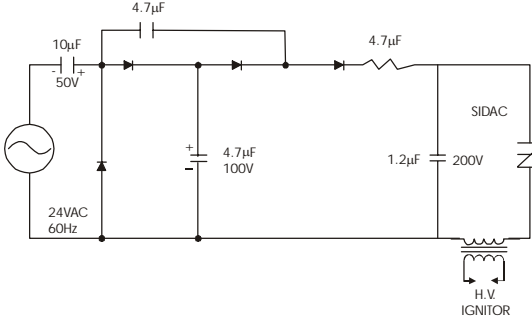


FIG.3 Typical High Pressure Sodium Lamp Firing Circuit  
典型的高压固体灯点火电路

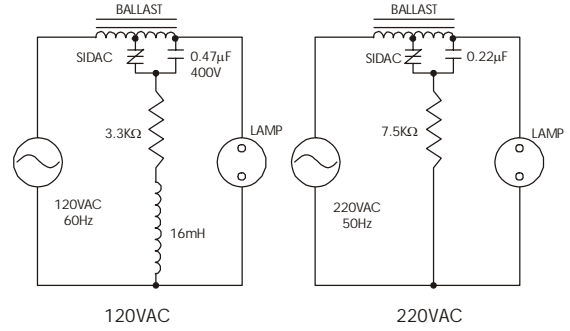


FIG.4 Comparison of SIDAC vs SCR  
SIDAC同单向可控硅的比较

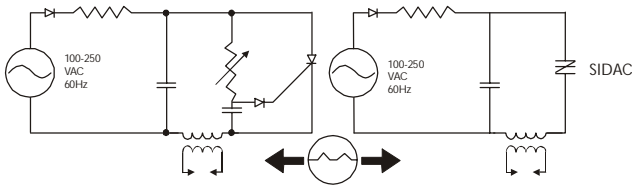


FIG.5 Xenon Lamp Flashing Circuit  
氙灯触发电路

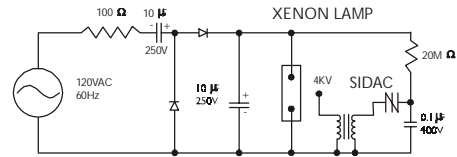


FIG.6 Dynamic Holding Current Test Circuit for SIDAC  
动态维持电流测试电路

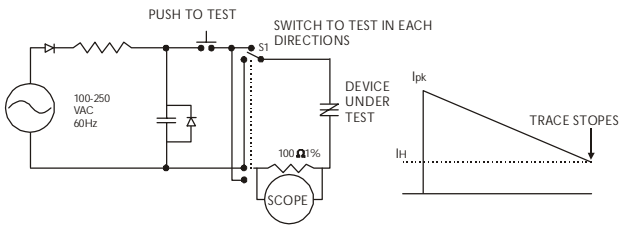


FIG.7 Basic SIDAC Circuit  
基本SIDAC应用电路

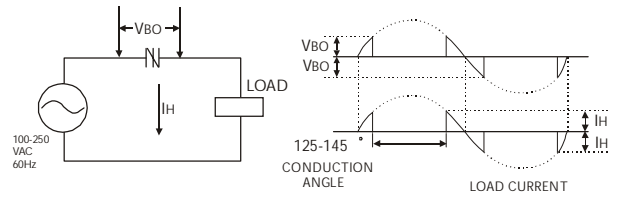


FIG.8 Relaxation Oscillator Using a SIDAC  
使用SIDAC的衰减振荡器

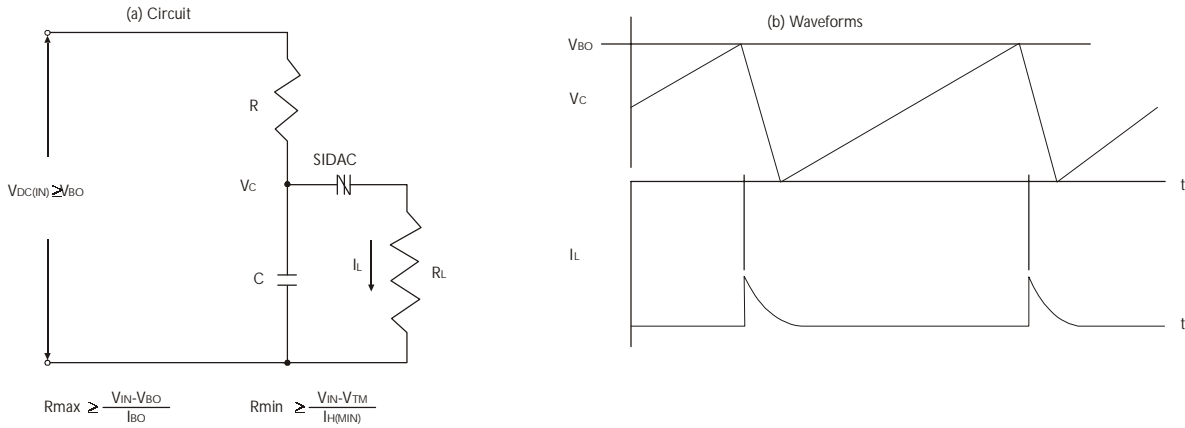
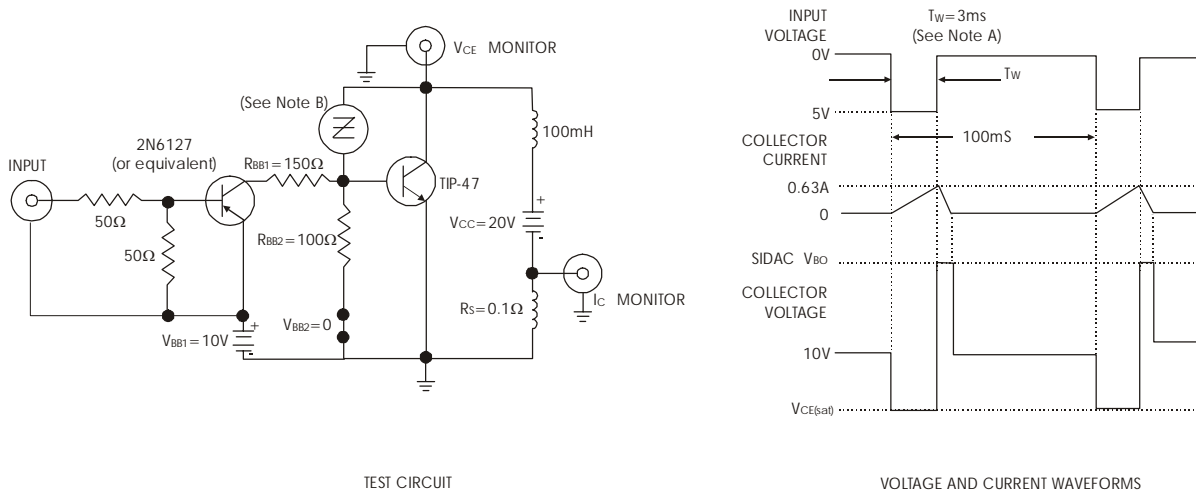


FIG.16 SIDAC Added To Protect Transistor For Typical Transistor Inductive Load Switching Requirements



NOTE A: Input pulse width is increased until  $I_{CM}=0.63A$ .

NOTE B: Sidac (or Diac or series of diacs) chosen so that  $V_{BO}$  is just below  $V_{CEO}$  rating of transistor to be protected. The Sidac (or Diac) eliminates a reverse breakdown of the transistor in inductive switching circuits where otherwise the transistor could be destroyed.