

## Sidac High Voltage Bidirectional Triggers 2A Mperere RMS

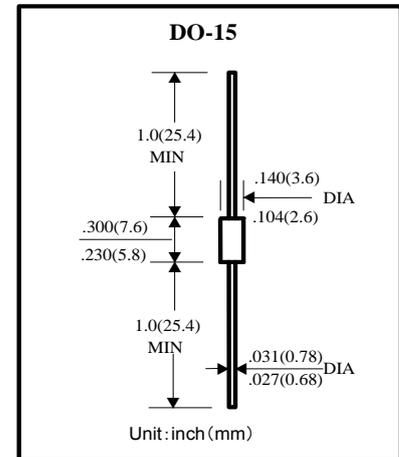
硅高压双向触发二极管  
峰值工作电流 2A

### 特征 Features

- 高压钠灯触发器 High pressure Sodium Vapor Lighting
- 高压调整器 High Voltage Regulators
- 脉冲发生器 Pulse Generators
- 代替可控硅 Used to Trigg Gates of SCR's and Triacs
- 无铅器件 These are pb free Devices\*

### 机械数据 Mechanical Data

- 端子: 镀锡轴向引线 Terminals: Plated axial leads
- 安装位置: 任意 Mounting Position: Any



极限值和温度特性 TA = 25°C 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Rating	符号 Symbols	k250	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage (Sine Wsve, 50to60Hz, T <sub>J</sub> =-40to125°C)	V <sub>DRM</sub> V <sub>RRM</sub>	±180	V
开态均方根电流 On-state RMS current(T <sub>L</sub> =80°C, Lead Length=3/8", All Conduction Angles)	I <sub>T(RMS)</sub>	±2.0	A
最大流涌电流 Peak Non Repetitive Surge Current (60Hz One Cycle Sine-wave, T <sub>J</sub> =125°C)	I <sub>TSM</sub>	±20	A
工作温度 Operating Junction Temperature Range	T <sub>J</sub>	-40 to +125	°C
储存温度 Storage Temperature Range	T <sub>stg</sub>	-40 to +125	°C
典型热阻 Thermal Resistance, Junction-to-lead (LEAD LENGTH=3/8")	R <sub>θJA</sub>	15	°C/W
焊接温度 Lead Solder Temperature (Lead length ≥ 1/16" from Case, 10s Max)	T <sub>L</sub>	260	°C

电特性 TC = 25°C 除非另有规定。

ELECTRICAL CHARACTERISTICS (TC = 25°C unless otherwise noted; Eletricals apply in both directions)

电特性 Characteristic	符号 Symbols	K250	单位 Unit
转折电压 Breakover Voltage, $I_{BO}=200\mu A$	$V_{BO}$	Min	230
		Max	265
反向漏电 Repetitive peak Off-State Current (50to60Hz Sine Wave)	$I_{DRM}$	10 ( $V_{DRM}=180V$ )	$\mu A$
转折电流 Breakover Current	$I_{BO}$	0.5	mA
通态峰值电压 Peak On_State Voltage ( $I_{TM}=1A$ Peak, Pulse Width $\leq 300\mu s$ , Duty Cycle $\leq 2\%$ )	$V_{TM}$	Typ 1.5 Max 2.0	V
动态维持电流 Dynamic Holding Current (Sine Wave, 60Hz, $R_L=100\Omega$ )	$I_H$	Typ 50	mA
切换电阻 Switching Resistance (Sine Wave, 50to60Hz)	$R_S$	0.1	K $\Omega$
电流上升率 Critical rate_of_rise of on_state Current, Critical Damped Eaveform Circuit ( $I_{PK}=130\Omega$ , Pulse Width=10 $\mu sec$ )	di/dt	120	A/ $\mu S$

## 硅高压双向触发二极管的特性曲线

### Voltage Characteristic Characteristic of SIDAC (Bidirectional Device)

