

K010

Sidac High Voltage Bidirectional Triggers 0.1A Mperere RMS

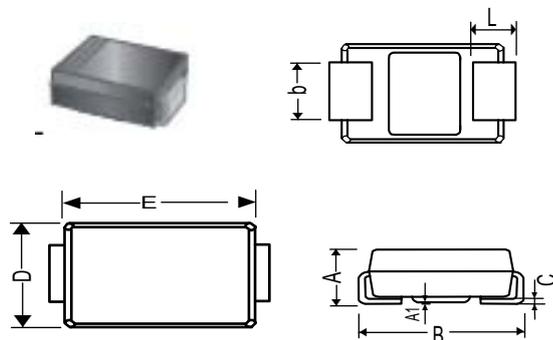
硅高压双向触发二极管
峰值工作电流 0.1A

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 Trigger Gates of SCR's and Triacs
- 无铅器件 These are pb free Devices*
- LDE灯保护 LED lamp protection

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



SMB

UNIT:mm

	A	E	D	B	A1	L	C	b
max	2.5	4.7	3.94	5.5	0.21	1.5	0.305	2.2
min	2.1	4.06	3.3	5.0	0.05	0.8	0.152	1.9



极限值和温度特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

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

Rating	符号 Symbols	K010	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage (Sine Wave, 50 to 60 Hz, $T_J = -40$ to 125°C)	V_{DRM} V_{RRM}	± 7	V
开态均方根电流 On-state RMS current ($T_L = 80^\circ\text{C}$, Lead Length = 3/8", All Conduction Angles)	$I_{T(RMS)}$	± 0.1	A
最大浪涌电流 Peak Non Repetitive Surge Current (60 Hz One Cycle Sine-wave, $T_J = 125^\circ\text{C}$)	I_{TSM}	± 3	A
工作温度 Operating Junction Temperature Range	T_J	-40 to +125	$^\circ\text{C}$
储存温度 Storage Temperature Range	T_{stg}	-40 to +125	$^\circ\text{C}$
典型热阻 Thermal Resistance, Junction-to-lead (LEAD LENGTH = 3/8")	$R_{\theta JA}$	15	$^\circ\text{C/W}$
焊接温度 Lead Solder Temperature (Lead length $\geq 1/16"$ from Case, 10s Max)	T_L	275	$^\circ\text{C}$

电特性 TC = 25°C 除非另有规定。

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

电特性 Characteristic	符号 Symbols	K010	单位 Unit
转折电压 Breakover Voltage, $I_{BO}=200\mu A$	V_{BO}	Min 7	V
		Max 12	
反向漏电流 Repetitive peak Off-State Current (50to60Hz Sine Wave)	I_{DRM}	10 ($V_{DRM}=90\%V_{BO}$)	μA
转折电流 Breakover Current	I_{BO}	100	μA
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	5-30	mA
切换电阻 Switching Resistance (Sine Wave, 50to60Hz)	R_S	0.1	K Ω
电流上升率 Critical rate_of_rise of on_state Current, Critical Damped Eaveform Circuit ($I_{PK}=130\Omega$, Pulse Width=10 μsec)	di/dt	120	A/ μS

硅高压双向触发二极管的特性曲线

Voltage Characteristic Characteristic of SIDAC (Bidirectional Device)

