K010

Sidac High Voltage
Bidirectional Triggers
0.1A Mpere 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 Uesd to Trigg Gates of SCR, s and Triacs
- 无铅器件 These are pb free Devices*
- LDE灯保护 LED lamp protection

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

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℃ 除非另有规定。
Maximum Ratings & Thermal Characteristics Ratings at 25℃ 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 Wsve,50to60Hz,T_J=-40to125℃)	V_{DRM} V_{RRM}	±7	V
开态均方根电流 On-state RMS current(T_L=80℃,Lead Length=3/8",All Conduction Angles	$I_{T(RMS)}$	±0.1	A
最大浪涌电流 Peak Non Repetitive Surge Current (60Hz One Cycle Sine-wave,T_J=125℃)	I_{TSM}	±3	A
工作温度 Operating Junction Temperature Range	T_J	-40 to +125	℃
储存温度 Storge Temperature Range	T_{stg}	-40 to +125	℃
典型热阻 Thermal Resistance,Junction-to-led (LEAD LENGTH=3/8")	$R_{\theta JA}$	15	℃/W
焊接温度 Lead Solder Temperature (Lead length≧1/16" from Case,10s Max)	T_L	275	℃

电特性 TC = 25℃ 除非另有规定。
ELECTRICAL CHARACTERISTICS (TC = 25℃ unless otherwise noted;Eletricals apply in both directions)

电特性 Characteristic		符号 Symbols	K010	单位 Unit
转折电压 Breakover Voltage,I_{BO}=200μA	Min	V_{BO}	7	V
	Max		12	
反向漏电 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 (ITM=1APeak,Pulse Width≦300μs,Duty Cycle≦2%)		V_{TM}	Typ 1.5 Max 2.0	V
动态维持电流 Dynamic Holding Current (Sine Wave,60Hz,R_L=100Ω)		I_H	5-30	mA
切换电阻 Switching Resistance (Sine Wave,50to60Hz)		R_S	0.1	KΩ
电流上升率 Critical rate_of_rise of on_state Current, Critical Damped Eaveform Circuit (IPK=130Ω,Pulse Width=10μsec)		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)