

Sidac High Voltage
Bidirectional Triggers
2A Mpere RMS

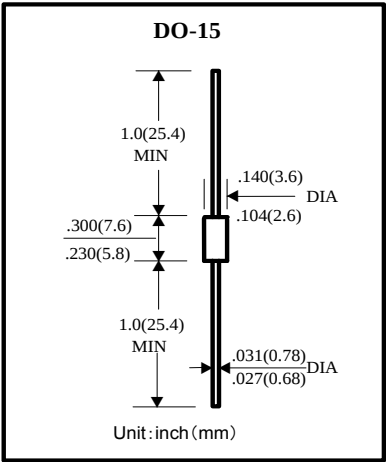
硅高压双向触发二极管
峰值工作电流 2A

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 Uesd 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℃ 除非另有规定。

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

Rating	符号 Symbols	k300	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}	±210	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)}	±2.0	A
最大流涌电流 Peak Non Repetitive Surge Current (60Hz One Cycle Sine-wave,T _J =125℃)	I _{TSM}	±20	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 _{θJA}	15	℃/W
焊接温度 Lead Solder Temperature (Lead length≥ 1/16" from Case,10s Max)	T _L	260	℃

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	K300	单位 Unit
转折电压 Breakover Voltage, $I_{BO}=200\mu A$	Min	280	V
	Max	325	
反向漏电流 Repetitive peak Off-State Current (50to60Hz Sine Wave)	I_{DRM}	10 ($V_{DRM}=180V$)	μA
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 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)

