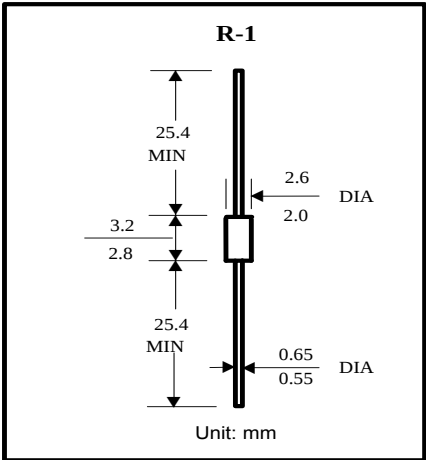


硅高压双向触发二极管
峰值工作电流 1A



Sidac High Voltage
Bidirectional Triggers
1A Mperre RMS

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.

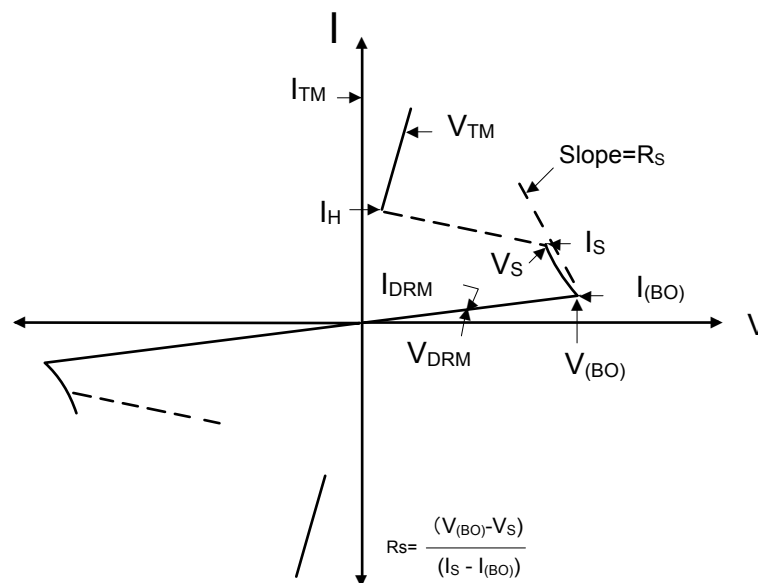
Rating	符号 Symbols	K105	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage (Sine Wsve, 50to60Hz, T _J =-40to125°C)	V _{DRM} V _{RRM}	±90	V
开态均方根电流 On-state RMS current(T _L =80°C, Lead Length=3/8", All Conduction Angles)	I _{T(RMS)}	±1.0	A
最大浪涌电流 Peak Non Repetitive Surge Current (60Hz One Cycle Sine-wave, T _J =125°C)	I _{TSM}	±10	A
工作温度 Operating Junction Temperature Range	T _J	-40 to +125	°C
储存温度 Storage Temperature Range	T _{stg}	-40 to +125	°C
典型热阻 Thermal Resistance, Junction-to-lead (LEAD LENGTH=3/8")	R _{θJA}	15	°C/W
焊接温度 Lead Solder Temperature (Lead length ≥ 1/16" from Case, 10s Max)	T _L	275	°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	K105	单位 Unit
转折电压 Breakover Voltage, $I_{BO}=200\mu A$	V_{BO}	95 113	V
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}	200	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	Typ 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)



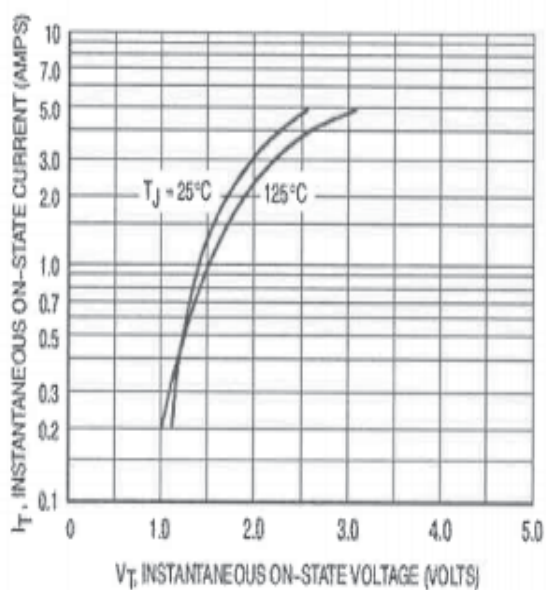


Figure 1. Typical On-State Voltage

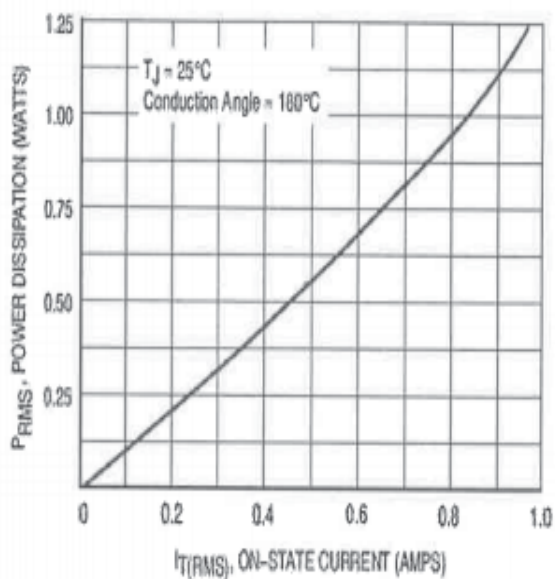


Figure 2. Typical Power Dissipation

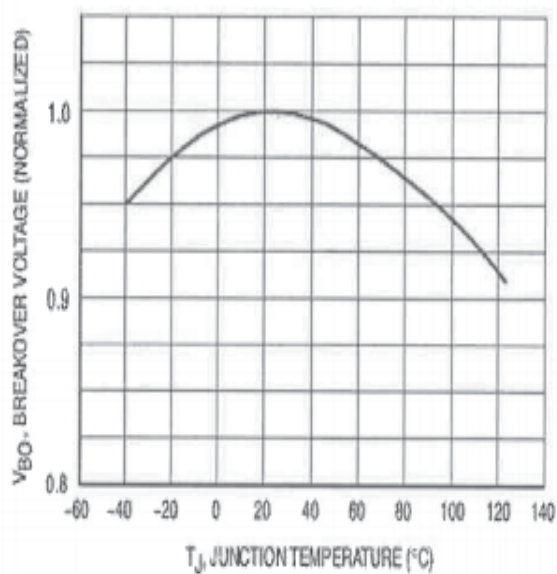


Figure 3. Typical Breakover Voltage

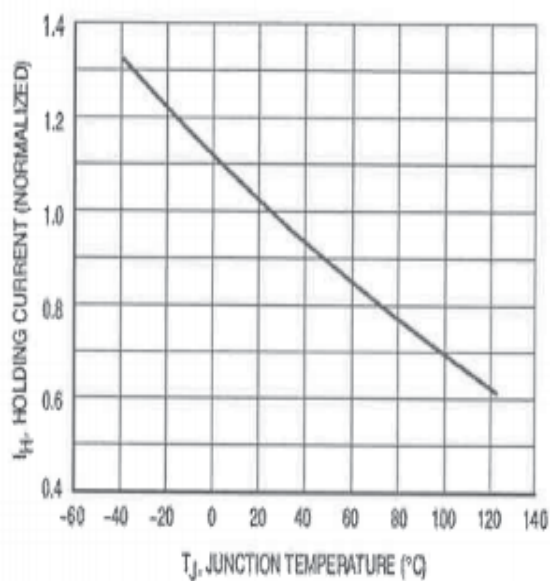


Figure 4. Typical Holding Current