

Sidac High Voltage Bidirectional Triggers 1A Mperere RMS

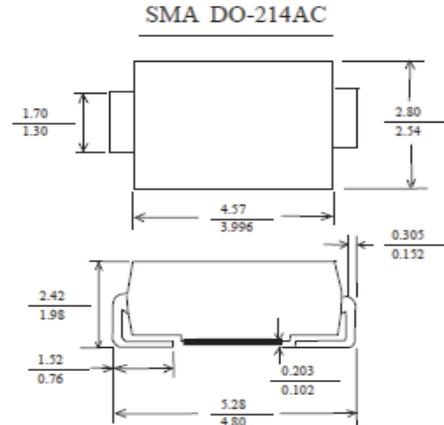
硅高压双向触发二极管
峰值工作电流 1A

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



Unit: mm



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	K240	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}	±180	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 (60 Hz One Cycle Sine-wave, T _J = 125°C)	I _{TSM}	±20	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

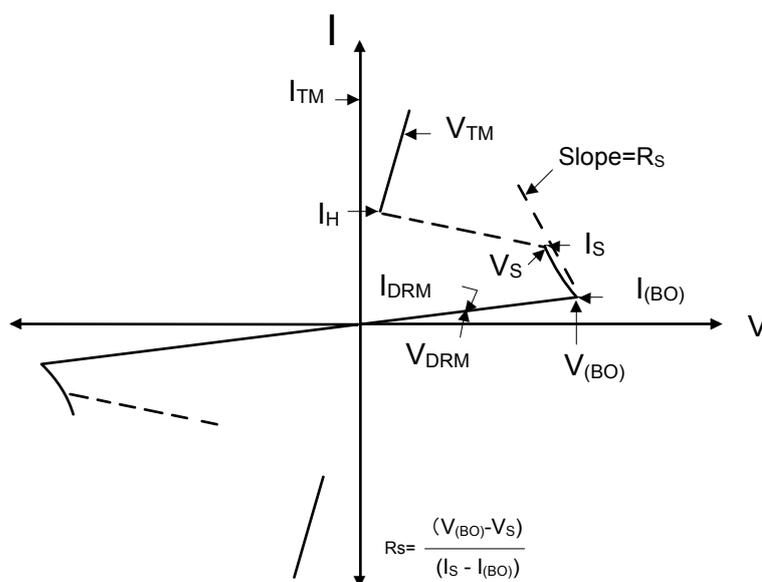
电特性 TC = 25°C 除非另有规定。

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

电特性 Characteristic	符号 Symbols	K240	单位 Unit
转折电压 Breakover Voltage, $I_{BO}=200\mu A$	V_{BO}	Min 225	V
Max 250			
反向漏电流 Repetitive peak Off-State Current (50to60Hz Sine Wave)	I_{DRM}	5	μA
转折电流 Breakover Current	I_{BO}	10	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 60	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

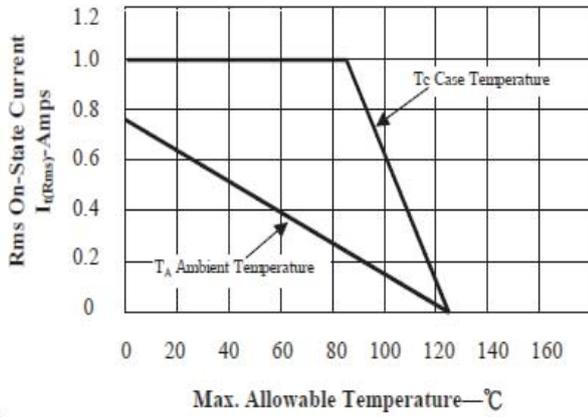
硅高压双向触发二极管的特性曲线

Voltage Characteristic Characteristic of SIDAC (Bidirectional Device)

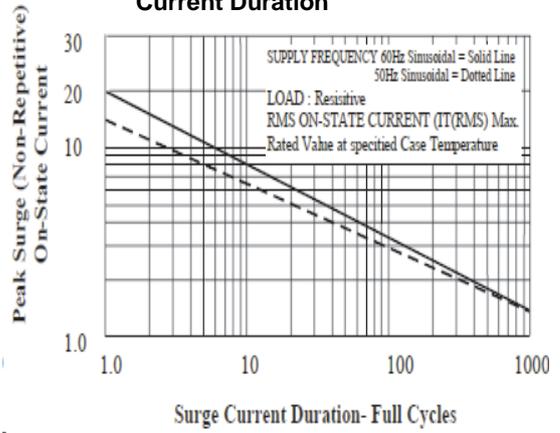


特性曲线 Characteristic Curves

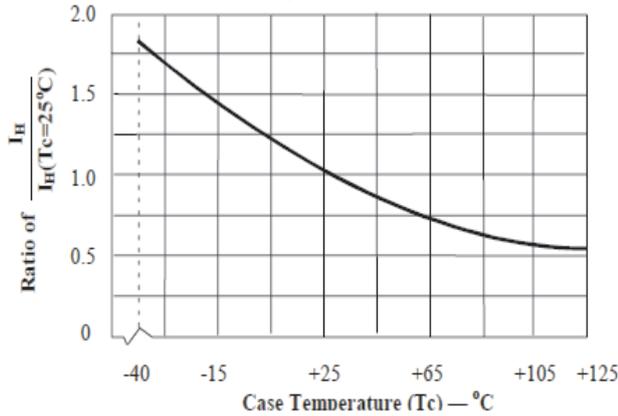
Maximum Allowable Case Temperature vs On State Current (And Ambient)



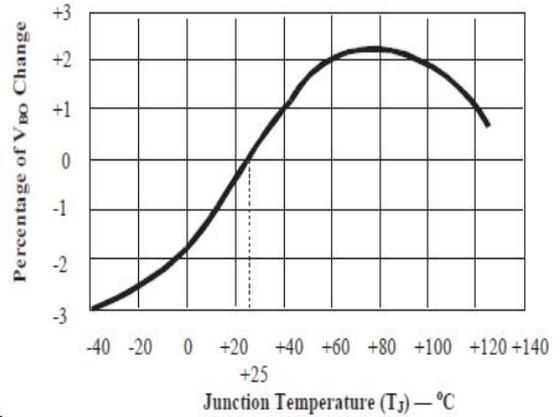
Peak Surge Current vs Surge Current Duration



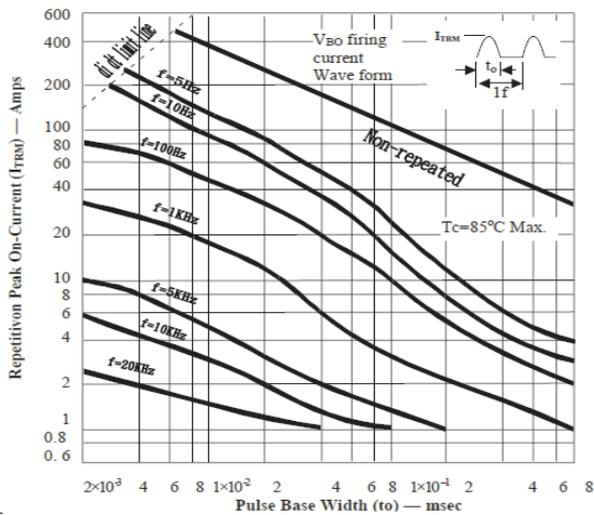
Normalized DC Holding Current vs Case Temperature



Normalized VBO Change vs Junction Temperature



High Frequency Current Capacity



Normalized Repetitive Peak Off-State Current vs Junction Temperature

