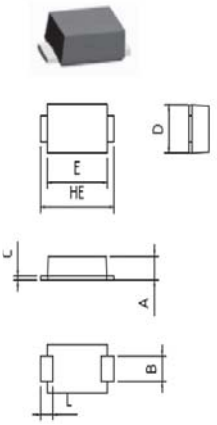
K120

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 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

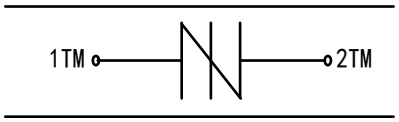


SOD-123

DIH	Unit:mm		
	MIN	TYP	MAX
A	0.9	1.05	1.3
A1	0.0	0.03	0.1
B	0.7	0.8	1.0
C	0.13	0.15	0.2
D	1.6	1.8	2.0
E	2.6	2.8	3.0
L	0.53	0.63	0.73
HE	3.5	3.7	3.9

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	K120	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}	±90	V
开态均方根电流 On-state RMS current(T_L=80℃,Lead Length=3/8",All Conduction Angles	$I_{T(RMS)}$	±1.0	A
最大浪涌电流 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")	$R_{\theta JA}$	15	℃/W
焊接温度 Lead Solder Temperature (Lead length≧1/16" from Case,10s Max)	T_L	275	℃

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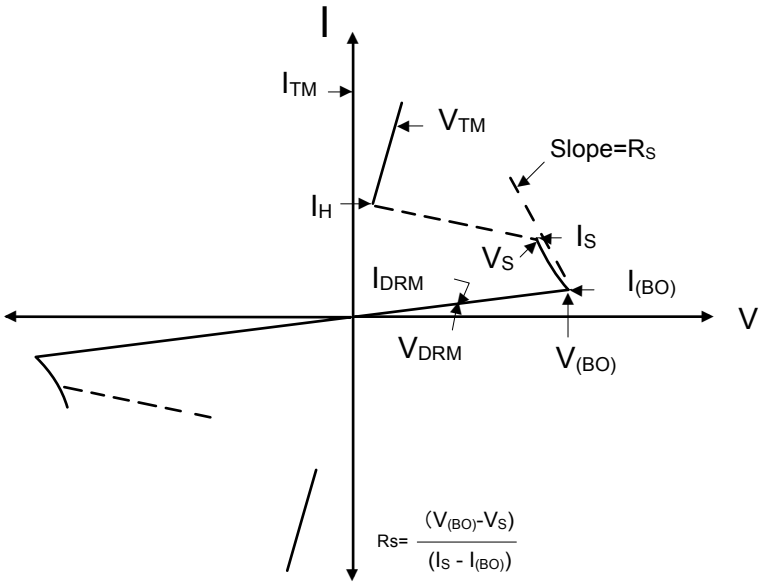
电特性 TC = 25℃ 除非另有规定。

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

电特性 Characteristic		符号 Symbols	K120	单位 Unit
转折电压 Breakover Voltage,I_{BO}=200μA	Min	V_{BO}	110	V
	Max		130	
反向漏电 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 (ITM=1APeak,Pulse Width≦300μs,Duty Cycle≦2%)		V_{TM}	Max 1.5	V
动态维持电流 Dynamic Holding Current (Sine Wave,60Hz,R_L=100Ω)	Typ	I_H	30	mA
	Max		60	
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)



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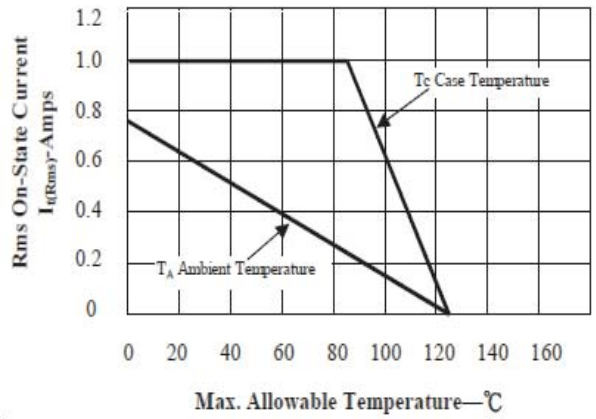
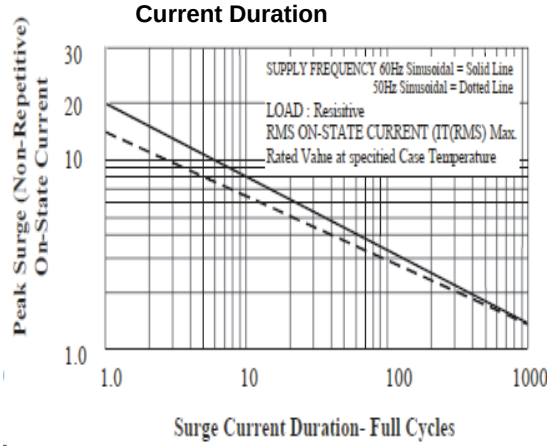
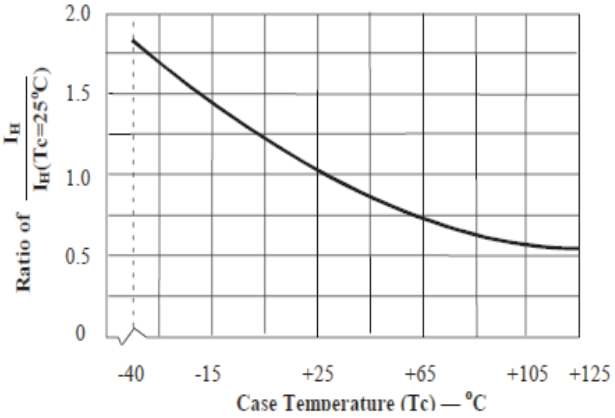
Maximum Allowable Case Temperature vs On State Current (And Ambient)



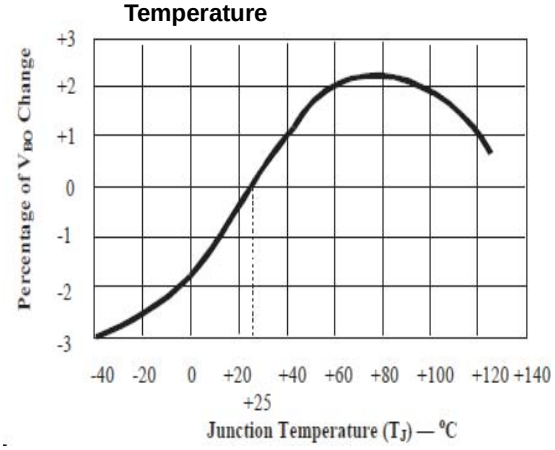
Peak Surge Current vs Surge Current Duration



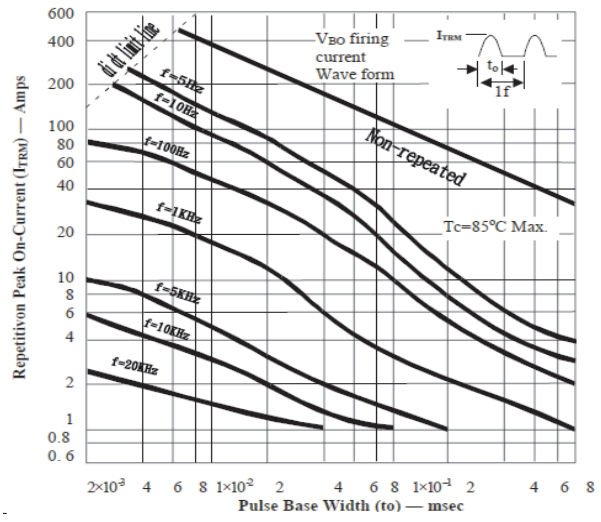
Normalixed DC Holding Current vs Case Temperture



Normalized V_{BO} Change vs Junction Temperature



High Frequency Current Capacity



Normalized Repetitive Peak Off-State Current vs Junction Temperature