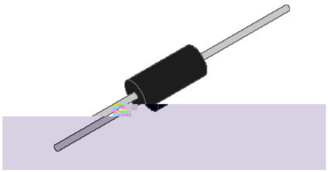
KxxxxG Series Sidac

The sidac is a silicon bilateral voltage triggered switch with greater power-handling capabilities than standard diacs. Upon application of a voltage exceeding the sidac breakover voltage point, the sidac switches on through a negative resistance region to a low on-state voltage. Conduction continues until the current is interrupted or drops below the minimum holding current of the device.

- **High-voltage lamp ignitors**
- **Natural gas ignitors**
- **Gas oil ignitors**
- **High-voltage power supplies**
- **Xenon ignitors**
- **Overvoltage protector**
- **Pulse generators**
- **Fluorescent lighting ignitors HID lighting ignitors**



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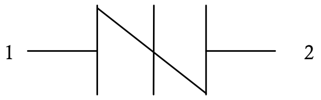


symbol

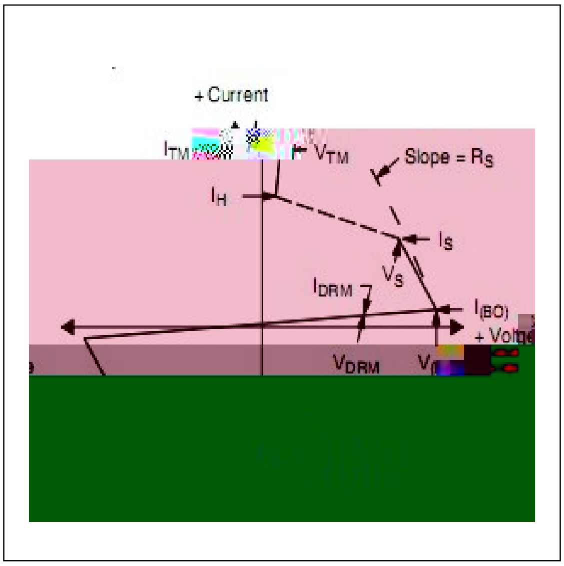
- **Excellent capability of absorbing transient surge**
- **Quick response to surge voltage (ns Level)**
- **Glass-passivated junctions**
- **High voltage lcmp ignitors**

(T =25 , RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage temperature range	T	-40 to +125	
Operating junction temperature range	T	-40 to +125	
On-state RMS current	I	1.0	A
Maximum surge on-state current non-repetitive one cycle peak value (50Hz)	I	16.7	A
Critical rate-of-rise of on-state current	di /dt	80	A/μs

(T =25)

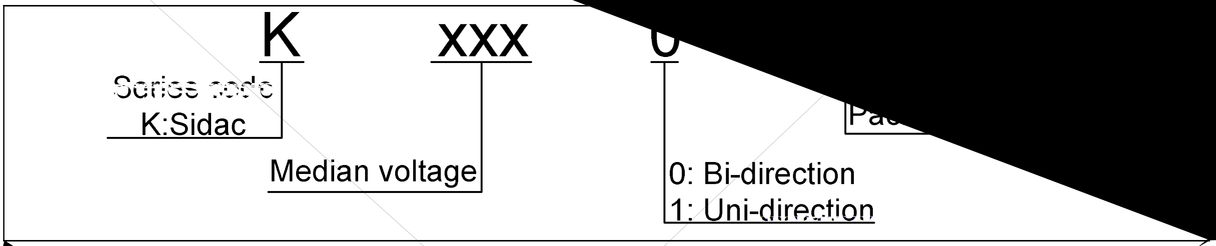
Symbol	Parameter
V	Peak off-state voltage
I	Off-state current
V	Switching voltage
I	Switching current
R	Switching resistance
V	On-state voltage
I	Holding current
V	Breakover Voltage
I	Breakover current



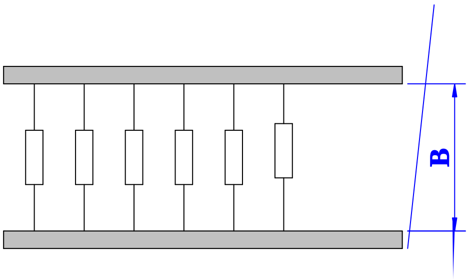
(T =25 , continued)

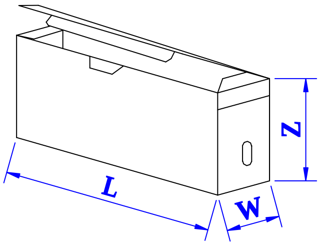
Part Number	I @V		V		I	V @ I =1A	I	R	Marking
	µA	V	V		µA	V	mA	kΩ	
	max	min	min	max	max	max	min	min	
K0900G	1	70	80	97	50	2	10	0.1	DB090
K1050G	1	90	95	113	50	2	10	0.1	DB105
K1200G	1	100	110	125	50	2	10	0.1	DB120
K1300G	1	110	120	138	50	2	10	0.1	DB130
K1400G	1	120	130	146	50	2	10	0.1	DB140
K1500G	1	130	140	170	50	2	10	0.1	DB150
K1800G	1	160	170	195	50	2	10	0.1	DB180
K2000G	1	180	190	215	50	2	10	0.1	DB200BW
K2200G	1	190	205	230	50	2	10	0.1	DB220BW
K2400G	1	200	220	250	50	2	10	0.1	DB240BW
K2600G	1	220	240	270	50	2	10	0.1	DB260BW

KxxxxG Serie



Reflow Condition		ssembly
	-T	
Pre Heat	-Temperature Max(T ¸) η }	B +200 " ٻ " a





Ref.	Dimensions	
	Millimeters	Inches
A	5.0±0.5	0.197±0.020
B	53.0±1.5	2.087±0.059
C	6.0±0.5	0.236±0.020
D	1.2(MAX)	0.047(MAX)
E	0.8(MAX)	0.031(MAX)
F	1.5(MAX)	0.059(MAX)
|L1-L2|	1.0(MAX)	0.039(MAX)
W	80±5.0	3.150±0.197
L	250±5.0	9.843±0.197
Z	115±5.0	4.528±0.197