

K1VZL09

SIDACs / Bi-directional (K1V Series)

5V, 5μA

Feature

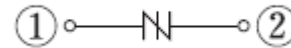
- Bi-directional type
- Wide-ranging pulse generation
- Direct switching with commercial power
- A reliable product with a track record, developed for many applications
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1F
 Package (JEDEC Code): DO-214AC



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-40 to 125	°C
Junction temperature	T _j		125	°C
Repetitive peak off-state voltage	V _{DRM}		5	V
On-state current (r.m.s.)	I _T (RMS)	Tl=110°C, 50Hz sine wave, θ=180°	0.5	A

※ :See the original Specifications

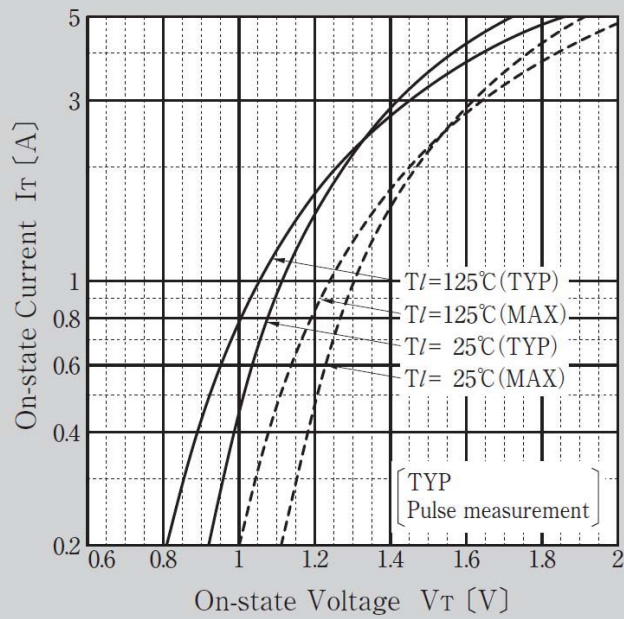
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakover voltage	V _{BO}	dv/dt=8V/ms, Pulse measurement	8		12	V
Off-state current	I _{DRM}	VD=5V			5	μA
Breakover current	I _{BO}				20	mA
Holding current	I _H				20	mA
On-state voltage	V _T	IT=0.5A			1.2	V
Thermal Resistance	R _{th(j-l)}	Junction to lead			23	°C/W

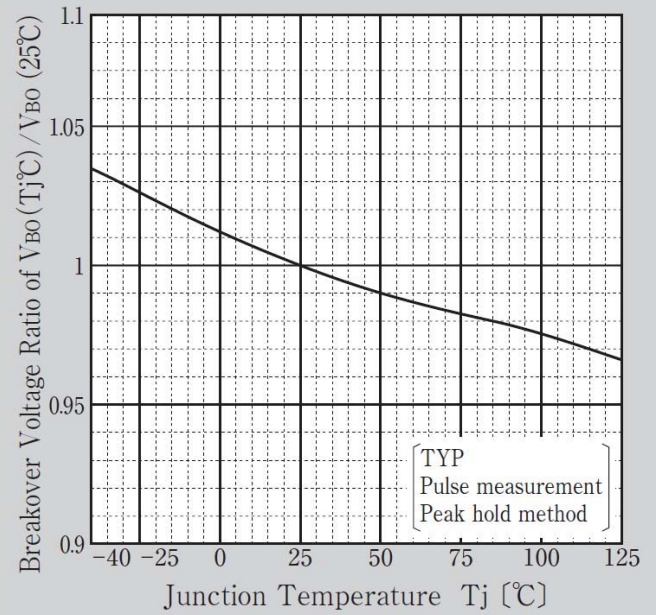
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

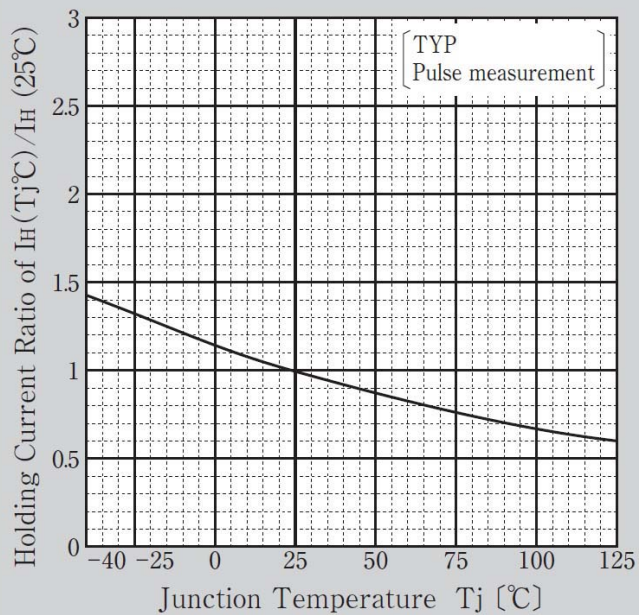
On-state Voltage vs On-state Current



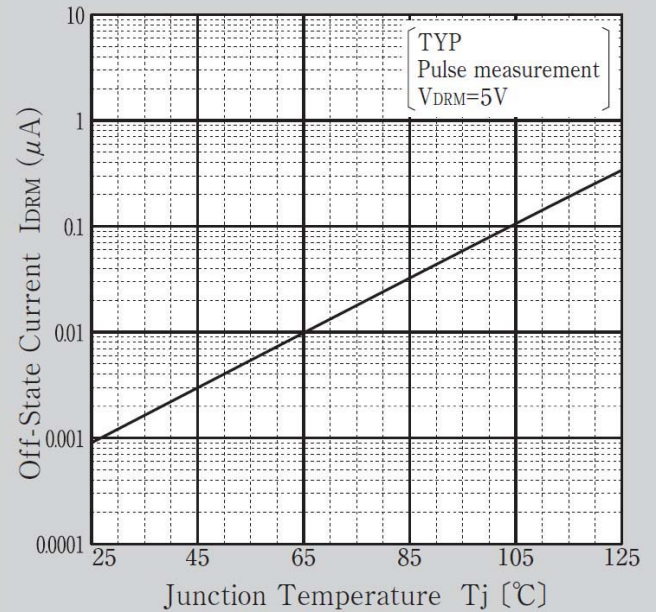
Breakover Voltage vs Junction Temperature



Holding Current vs Junction Temperature

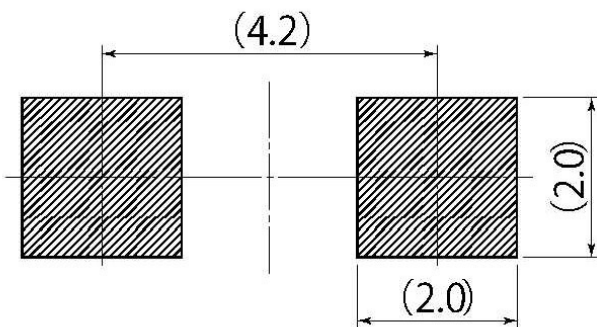
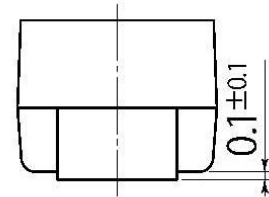
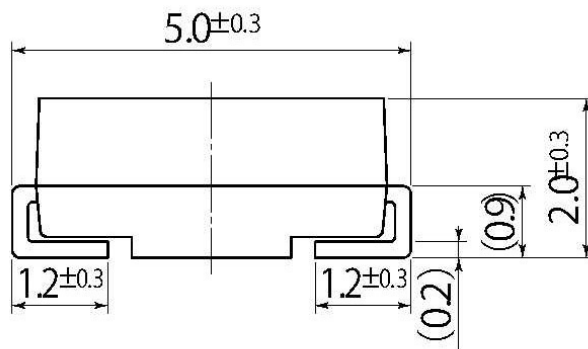
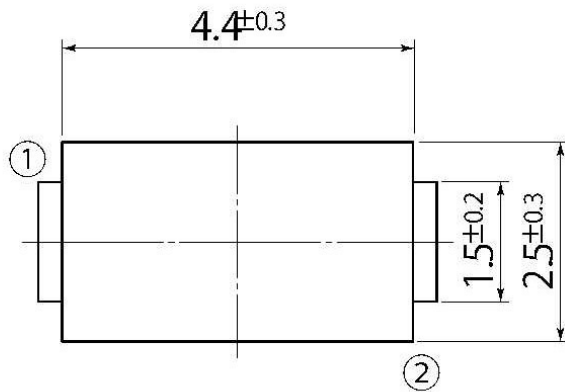


Off-State Current vs Junction Temperature



B4

JEDEC Code	DO-214AC
JEITA Code	—
House Name	1F



Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condition.

Notes

1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
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Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, anti-disaster/crime systems, safety equipment, medical equipment, etc.
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