

K1VZL09

SIDACs / Bi-directional (K1V Series)

5V, 5μA

Feature

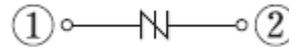
- Bi-directional type
- Wide-ranging pulse generation
- Direct switching with commercial power
- A reliable product with a track record, developed for many applications
- Pb free terminal
- RoHS:Yes

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

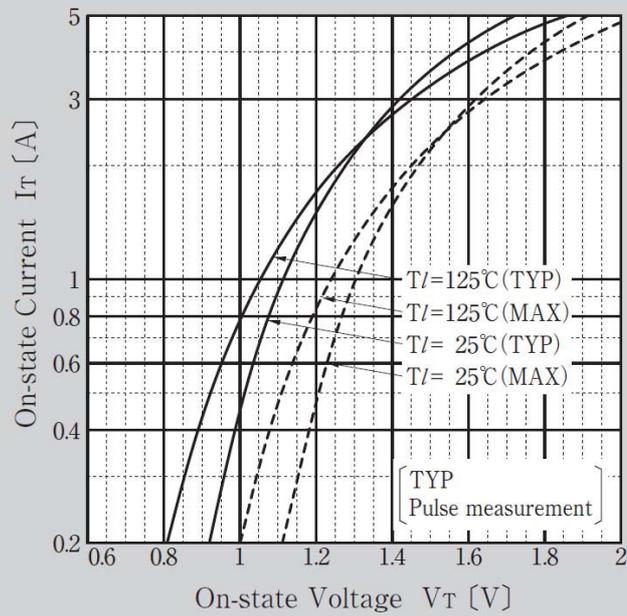
Electrical Characteristics (unless otherwise specified : Tl=25°C)

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

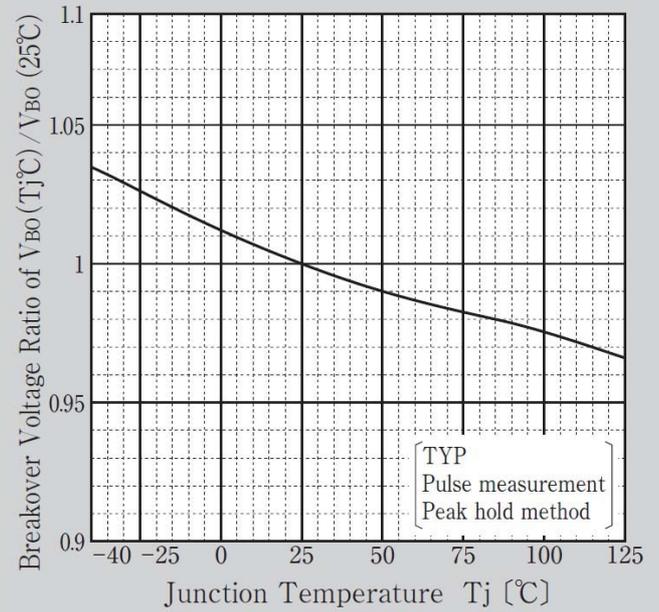
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CHARACTERISTIC DIAGRAMS

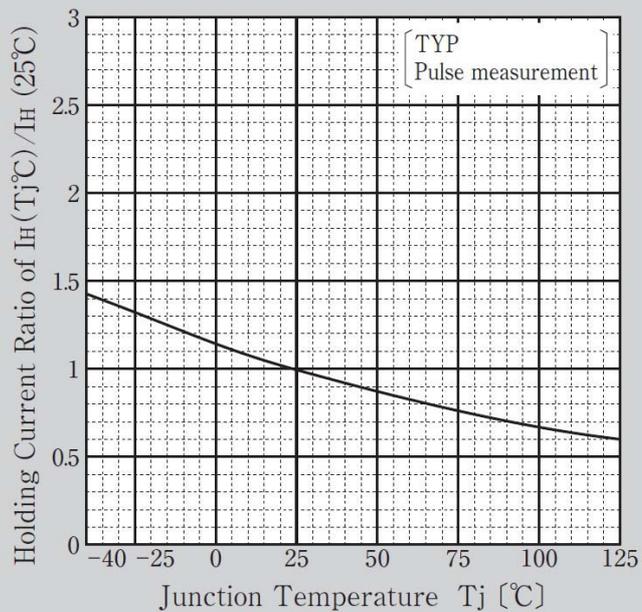
On-state Voltage vs On-state Current



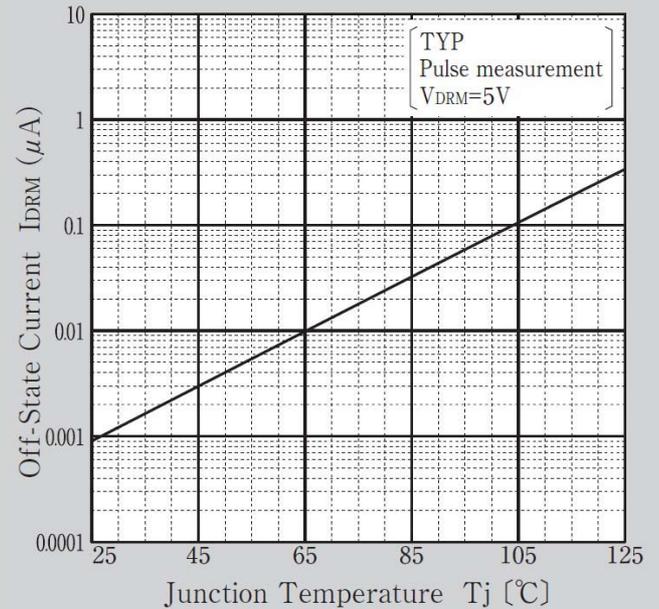
Breakover Voltage vs Junction Temperature



Holding Current vs Junction Temperature

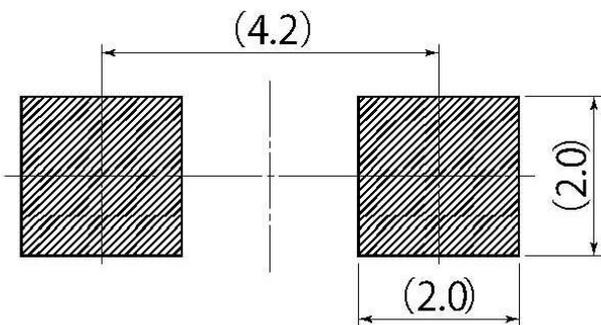
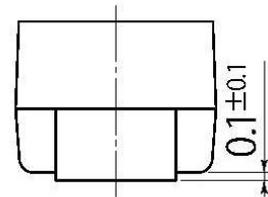
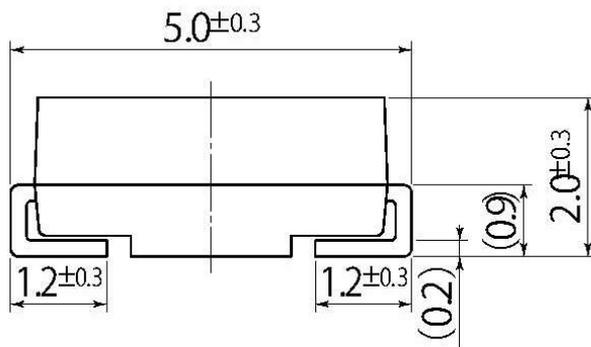
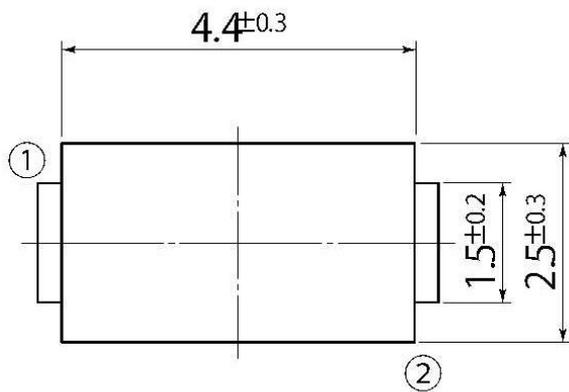


Off-State Current vs Junction Temperature



B4

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



Referential Soldering Pad

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