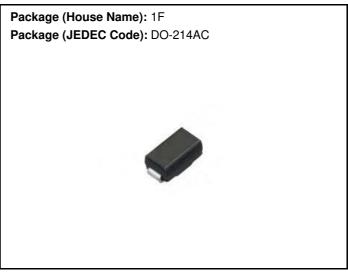
# G1VL22C SIDACs / Uni-directional (G1V Series) 190V, 280A

### Feature

- Uni-directional
- Miniaturized compared to a K1V series
- For pulse generation, DC power with switching operation
- A reliable product with a track record, developed for many applications
- Pb free terminal
- RoHS:Yes

#### OUTLINE



## **Equivalent circuit**

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

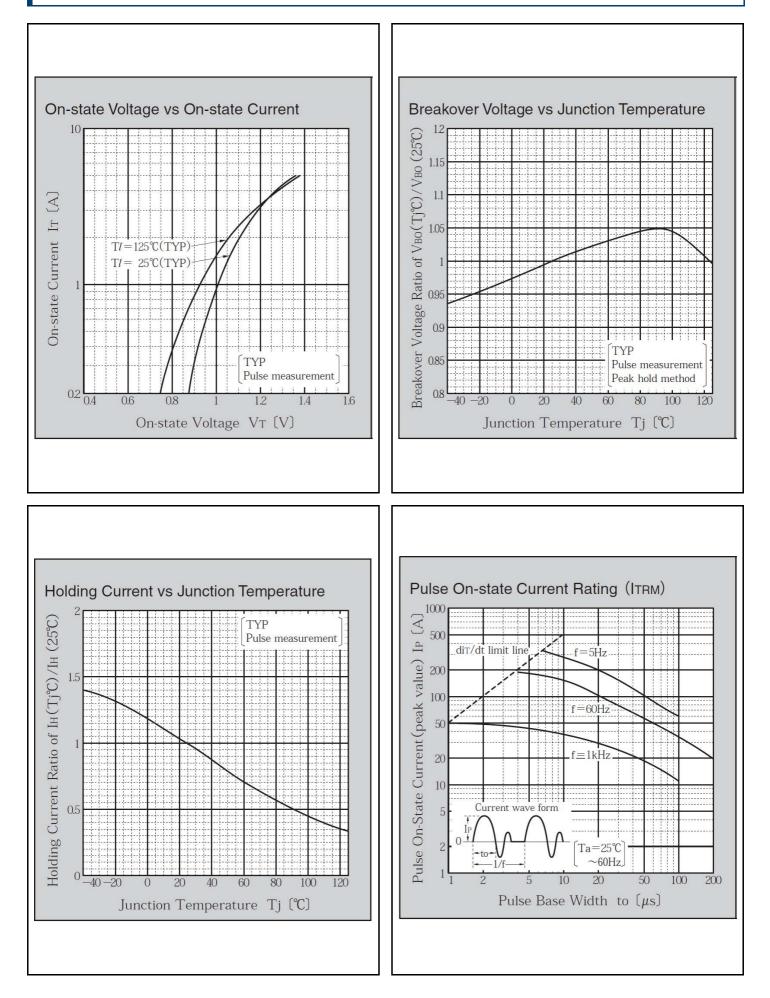
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 125	°C
Junction temperature	Tj		125	°C
Maximum off-state voltage	V <sub>DRM(A)</sub>		190	V
RMS on-state current	Γ	TI=98°C, 50Hz sine wave, θ=180°	1	Α
Pulse on-state current	I <sub>TRM</sub>	Ta=25°C, pulse width 10µs, 5Hz sine wave	280	Α
Critical rate of rise of on-state current	di <sub>T</sub> /dt		150	A/µs

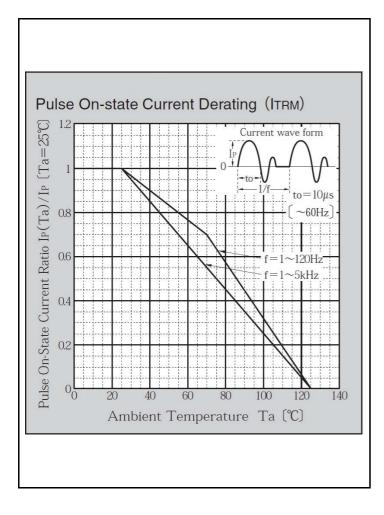
\* : See the original Specifications

Electrical Characteristics (unless otherwise specified : TI=25°C)								
ltem	Symbol	Conditions		Ratings				
	Symbol		MIN	ТҮР	MAX	Unit		
Breakover voltage	V <sub>BO(A)</sub>	Pulse measurement, dv/dt=4V/ms	210		230	V		
Off-state current	I <sub>DRM(A)</sub>	VD=190V			10	μA		
Breakover current	I <sub>BO(A)</sub>	VBO-0.5V			0.5	mA		
Holding current	I <sub>H(A)</sub>				60	mA		
Holding current	I <sub>H(K)</sub>				60	mA		
On-state voltage	V <sub>T(A)</sub>	IT=1A			1.5	V		
On-state voltage	V <sub>T(K)</sub>	IT=1A			1.5	V		
Switching resistance	R <sub>S(A)</sub>		0.1			kΩ		
Thermal resistance	Rth(j-l)	Junction to lead			23	°C/W		

\* : See the original Specifications

## **CHARACTERISTIC DIAGRAMS**

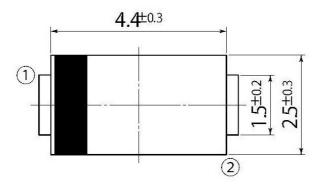


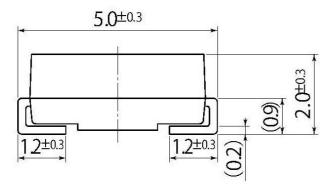


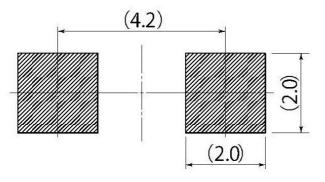
### unit:mm

scale: 10/1

B3	JEDEC Code	DO-214AC		
	JEITA Code	-		
	House Name	1F		

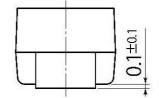






## Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.



#### Notes

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- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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#### [Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

#### [Specific applications]

Nuclear reactor control systems, aircraft, aerospace equipment, submarine repeaters, life support equipment and systems, etc.

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