

# G1VL22C

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

#### **Feature**

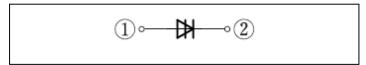
- Uni-directional
- Miniaturized compared to a K1V series
- For pulse generation, DC power with switching operation
- A reliable product with a track record, developed for many applications
- Pb free terminal
- RoHS:Yes

### **OUTLINE**

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



## **Equivalent circuit**



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

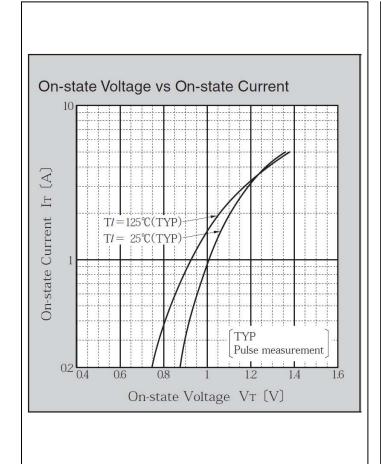
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 125	°C
Junction temperature	Tj		125	°C
Maximum off-state voltage	V <sub>DRM(A)</sub>		190	٧
RMS on-state current	I <sub>T</sub>	Tl=98°C, 50Hz sine wave, θ=180°	1	Α
Pulse on-state current	I <sub>TRM</sub>	Ta=25°C, pulse width 10μs, 5Hz sine wave	280	Α
Critical rate of rise of on-state current	di <sub>T</sub> /dt		150	A/μs

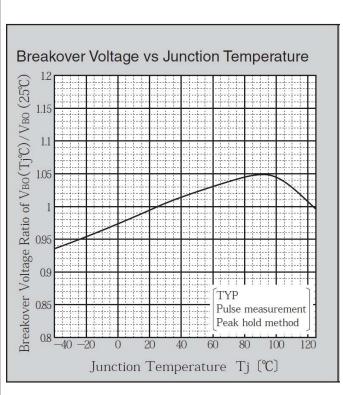
**<sup>\* :</sup> See the original Specifications** 

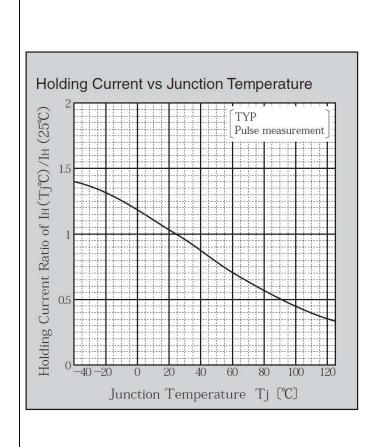
# **Electrical Characteristics** (unless otherwise specified: Tl=25°C)

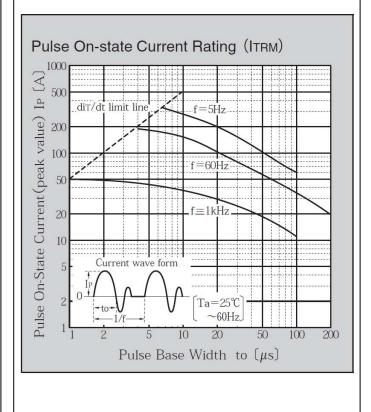
Item	Symbol	Conditions	Ratings			II.u.i.t
			MIN	TYP	MAX	Unit
Breakover voltage	V <sub>BO(A)</sub>	Pulse measurement, dv/dt=4V/ms	210		230	٧
Off-state current	I <sub>DRM(A)</sub>	VD=190V			10	μΑ
Breakover current	I <sub>BO(A)</sub>	VBO-0.5V			0.5	mA
Holding current	I <sub>H(A)</sub>				60	mA
Holding 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	٧
Switching resistance	R <sub>S(A)</sub>		0.1			kΩ
Thermal resistance	Rth(j-l)	Junction to lead			23	°C/W

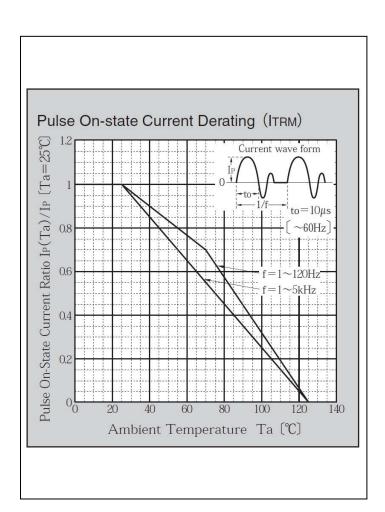
# **CHARACTERISTIC DIAGRAMS**









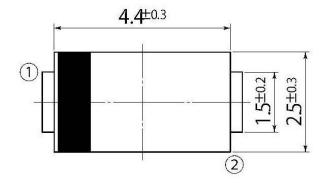


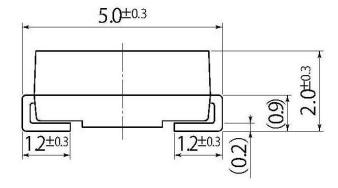
## unit:mm

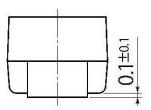
scale: 10/1

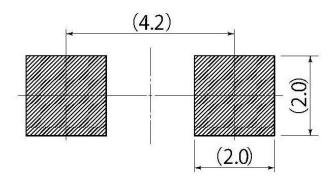
**B**3

JEDEC Code	DO-214AC		
JEITA Code	_		
House Name	1F, CF		









Referential Soldering Pad

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

#### **Notes**

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#### [Special applications]

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#### [Specific applications]

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# Shindengen:

 KC5FB60HR-5071
 KC3FB40H-5071
 KC5FB60H-5071
 G1VL24C-5103
 K1V38(W)-7060
 K1V36(W)-7060
 K1V36(W)-7060
 K1V24(W)-7060
 K1V24(W)-7060
 K1V24(W)-7000
 K1V22(W)-7000

 K1V26(W)-7060
 K1V26(W)-7060
 K1V(A)11-7070
 K1V(A)11-7070
 K1V(A)10-7070
 K1V(A)10-7070
 K1V(A)12-7000

 K1V(A)10-7000
 K1V(A)12-7000
 K1V12-7000
 K1V12-4060
 K1V12-4000
 G1VL22C-5073