

### G1VL15C

# SIDACs / Uni-directional (G1V Series) 120V, 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

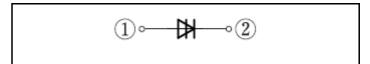
#### **OUTLINE**

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>		120	٧
RMS on-state current	I <sub>T</sub>	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
Pulse on-state current	I <sub>TRM</sub>	Ta=25°C, pulse width 10µs, 60Hz sine wave	120	Α
Critical rate of rise of on-state current	di <sub>T</sub> /dt		150	A/μs

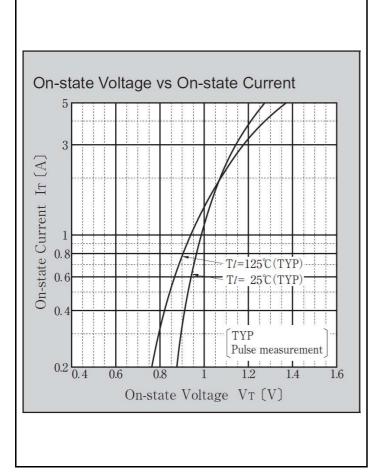
<sup>\* :</sup> See the original Specifications

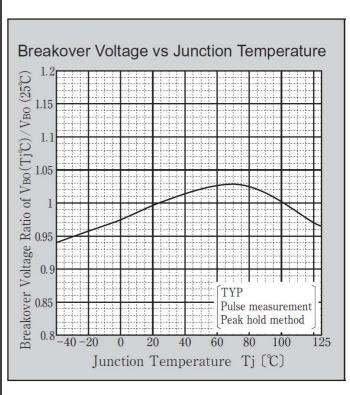
#### **Electrical Characteristics** (unless otherwise specified : TI=25°C)

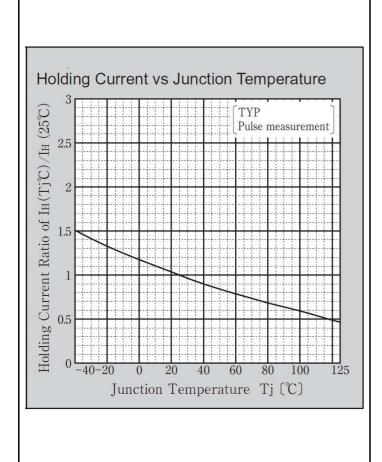
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oilit
Breakover voltage	V <sub>BO(A)</sub>	Pulse measurement, dv/dt=4V/ms	142		157	V
Off-state current	I <sub>DRM(A)</sub>	VD=120V			10	μΑ
Breakover current	I <sub>BO(A)</sub>	VBO-0.5V			0.5	mA
Holding current	I <sub>H(A)</sub>				60	mA
Holding current	I <sub>H(K)</sub>				60	mA
On-state voltage	$V_{T(A)}$	IT=1A			1.5	V
On-state voltage	$V_{T(K)}$	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

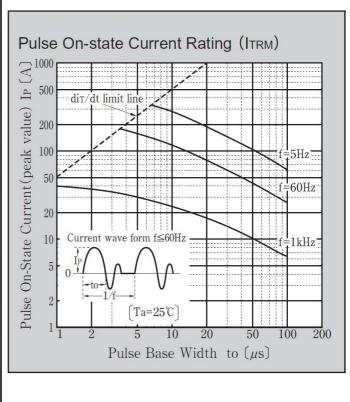
<sup>\*</sup> :See the original Specifications

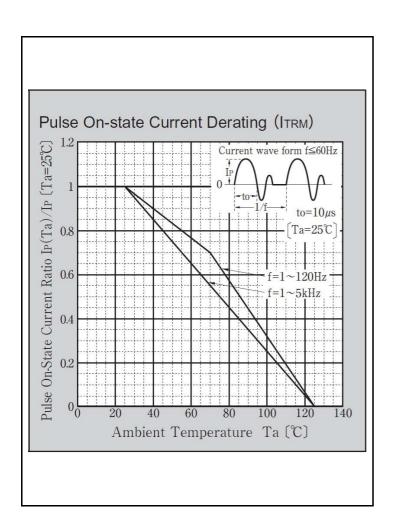
#### **CHARACTERISTIC DIAGRAMS**









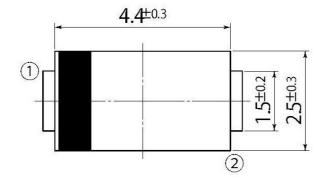


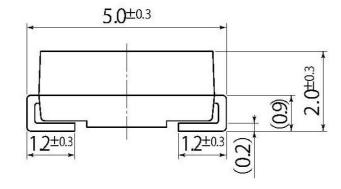
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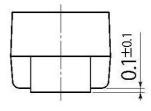
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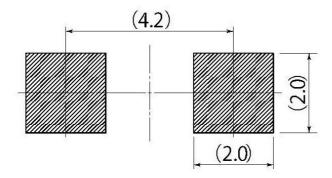
## **B3**

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









Referential Soldering Pad

<sup>•</sup> Optimize soldering pad to the board design and soldering condition.

#### **Notes**

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