# **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



### **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	V
RMS on-state current	Ι <sub>Τ</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
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

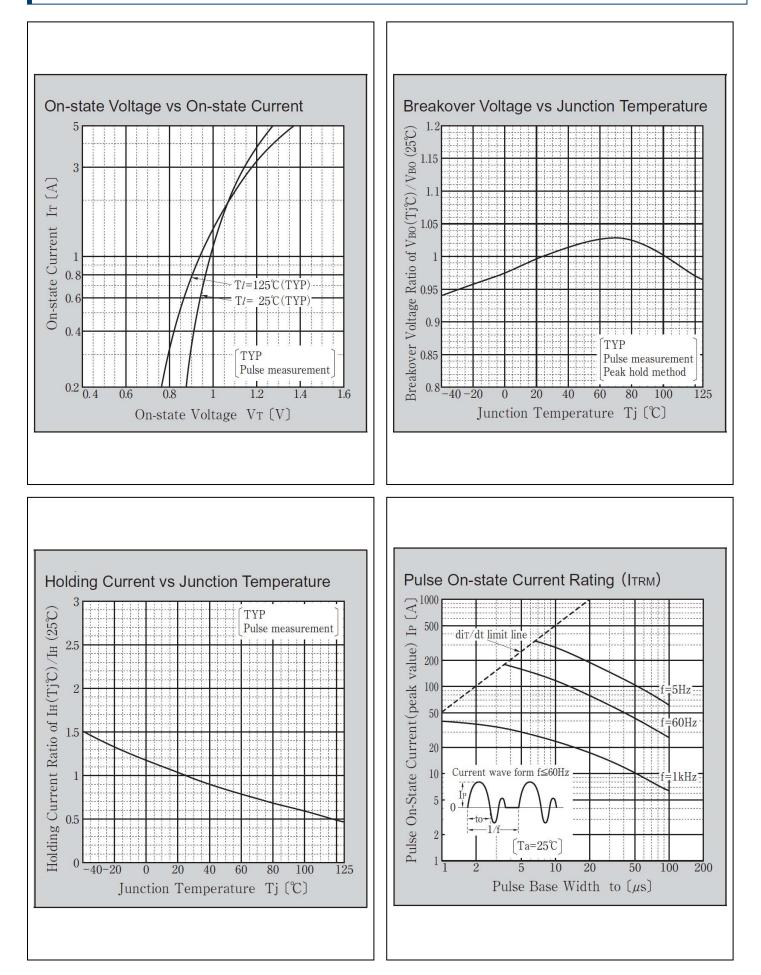
※ ∶See the original Specifications

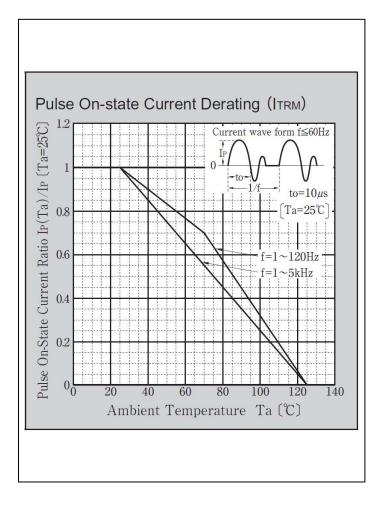
# **Electrical Characteristics** (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			11
			MIN	ТҮР	МАХ	Unit
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	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

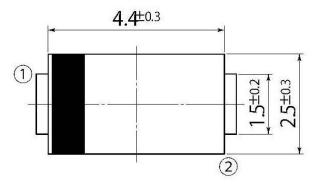


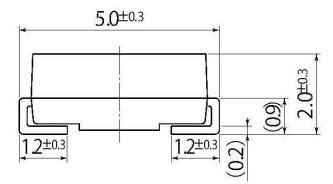


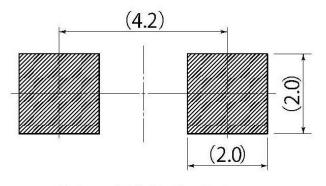
# unit:mm

scale: 10/1

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

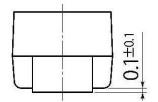






Referential Soldering Pad

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



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[Specific applications]

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