

G1VL15C

SIDACs / Uni-directional (G1V Series) 120V, 280A

Feature

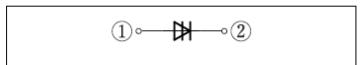
- Uni-directional
- Miniaturized compared to a K1V series
- For pulse generation, DC power with switching operation
- A reliable product with a track record, developed for many applications
- Pb free terminal
- RoHS:Yes

OUTLINE

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



Equivalent circuit



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

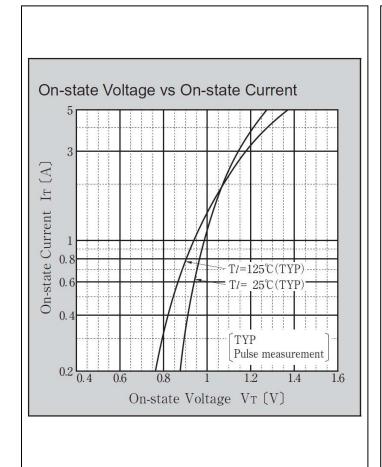
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 125	°C
Junction temperature	Tj		125	°C
Maximum off-state voltage	V _{DRM(A)}		120	V
RMS on-state current	I _T	Tl=98°C, 50Hz sine wave, θ=180°	1	Α
Pulse on-state current	I _{TRM}	Ta=25°C, pulse width 10μs, 5Hz sine wave	280	Α
Pulse on-state current	I _{TRM}	Ta=25°C, pulse width 10μs, 60Hz sine wave	120	Α
Critical rate of rise of on-state current	di _T /dt		150	A/μs

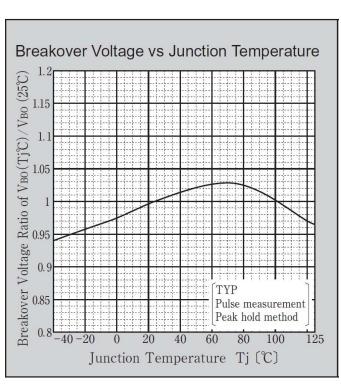
[※] ∶See the original Specifications

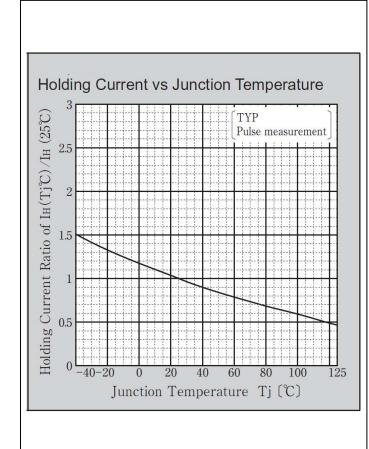
Electrical Characteristics (unless otherwise specified: Tl=25°C)

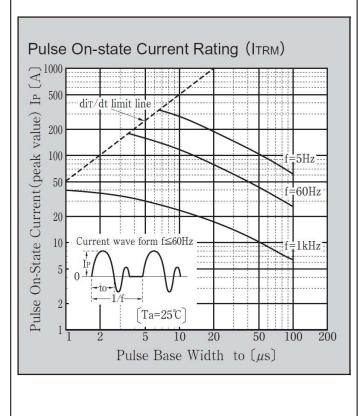
Item	Symbol	Conditions	Ratings			11
			MIN	TYP	MAX	Unit
Breakover voltage	V _{BO(A)}	Pulse measurement, dv/dt=4V/ms	142		157	V
Off-state current	I _{DRM(A)}	VD=120V			10	μΑ
Breakover current	I _{BO(A)}	VBO-0.5V			0.5	mA
Holding current	I _{H(A)}				60	mA
Holding current	I _{H(K)}				60	mA
On-state voltage	V _{T(A)}	IT=1A			1.5	V
On-state voltage	V _{T(K)}	IT=1A			1.5	V
Switching resistance	R _{S(A)}		0.1			kΩ
Thermal resistance	Rth(j-l)	Junction to lead			23	°C/W

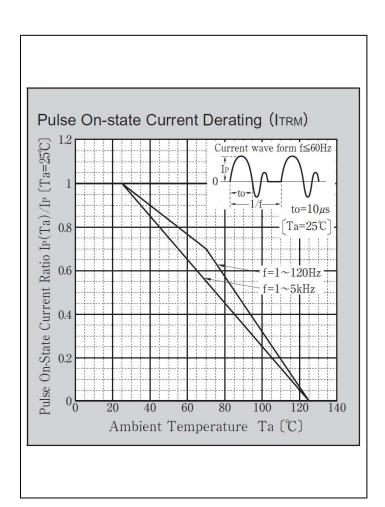
CHARACTERISTIC DIAGRAMS









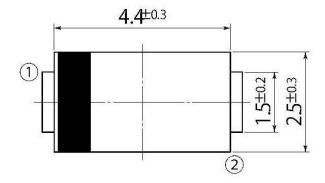


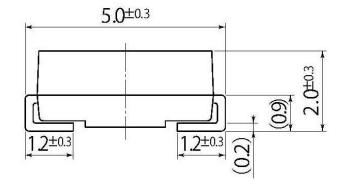
unit:mm

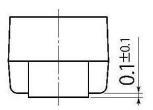
scale: 10/1

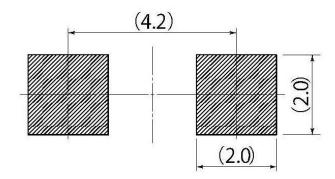
B3

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









Referential Soldering Pad

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

Notes

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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]

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