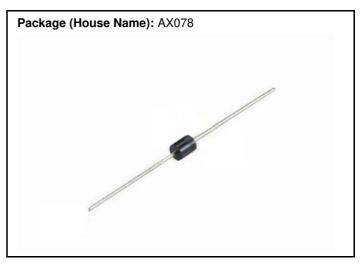
G1V(B)20C SIDACs / Uni-directional (G1V Series) 170V, 280A

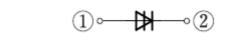
Feature

- 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)

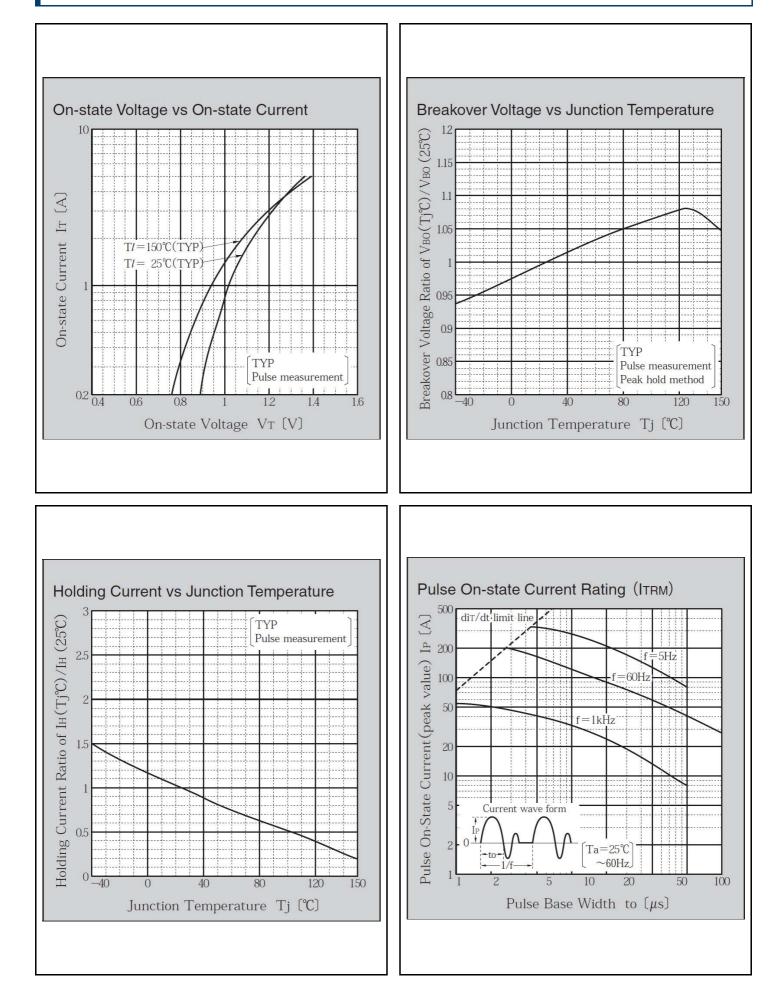
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		150	°C
Maximum off-state voltage	V _{DRM(A)}		170	V
RMS on-state current	Ι _Τ	TI=102°C, 50Hz sine wave, θ=180°	1	Α
Pulse on-state current	I _{TRM}	Ta=25°C, pulse width 10µs, 5Hz sine wave	280	А
Pulse on-state current	I _{TRM}	Ta=25°C, pulse width 10µs, 60Hz sine wave	120	А
Critical rate of rise of on-state current	di _T /dt		220	A/µs

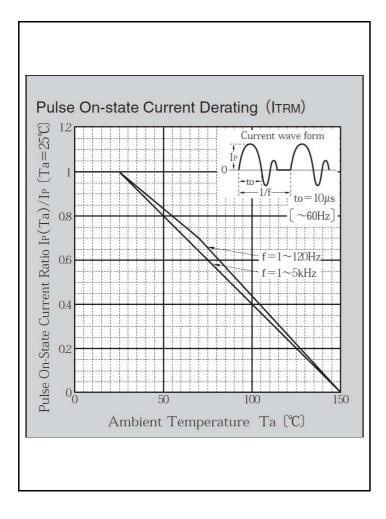
* : See the original Specifications

Electrical Characteristics (unless otherwise specified : TI=25°C)								
ltem	Symbol	Conditions		Ratings				
	Symbol		MIN	ТҮР	MAX	Unit		
Breakover voltage	V _{BO(A)}	Pulse measurement, dv/dt=4V/ms	190		210	V		
Off-state current	I _{DRM(A)}	VD=170V, TI=25°C			1	μA		
Off-state current	I _{DRM(A)}	VD=170V, TI=125°C			10	μA		
Breakover current	I _{BO(A)}				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			17	°C/W		

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

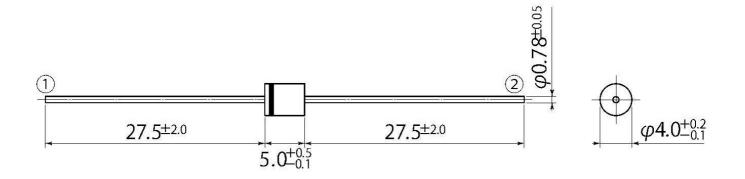




unit:mm

scale: 2/1

A4	JEDEC Code	—
	JEITA Code	-
	House Name	AX078



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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Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.

[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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