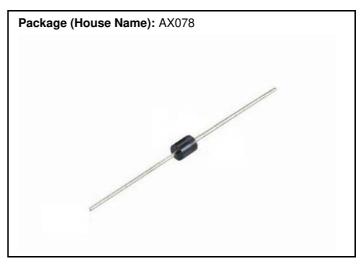
# ST02D-170

Power Clampers 200W, 145V

## Feature

- TVS with FRD
- Axial Package
- Application for snubber circuit
- Pb free terminal
- RoHS:Yes

## OUTLINE



# **Equivalent circuit**

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

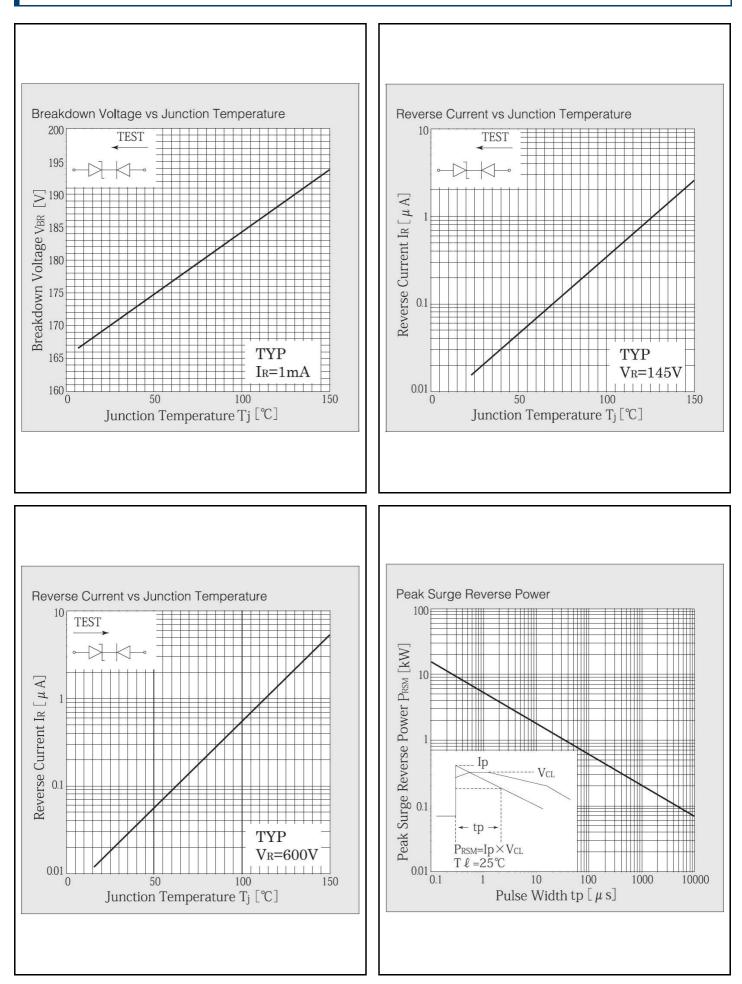
Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-40 to 150	°C
Operating junction temperature	Tj		150	°C
Maximum surge reverse power(ZD)	P <sub>RSM</sub> (ZD)	10/1000µs, Non-repetitive	200	W
Maximum surge reverse current(ZD)	I <sub>RSM</sub> (ZD)	10/1000μs, Non-repetitive	0.75	А
Continuous (direct) reverse voltage(ZD)	V <sub>RM(DC)</sub> (ZD)		145	V
Repetitive peak reverse voltage(Di)	V <sub>RRM</sub> (Di)		600	V

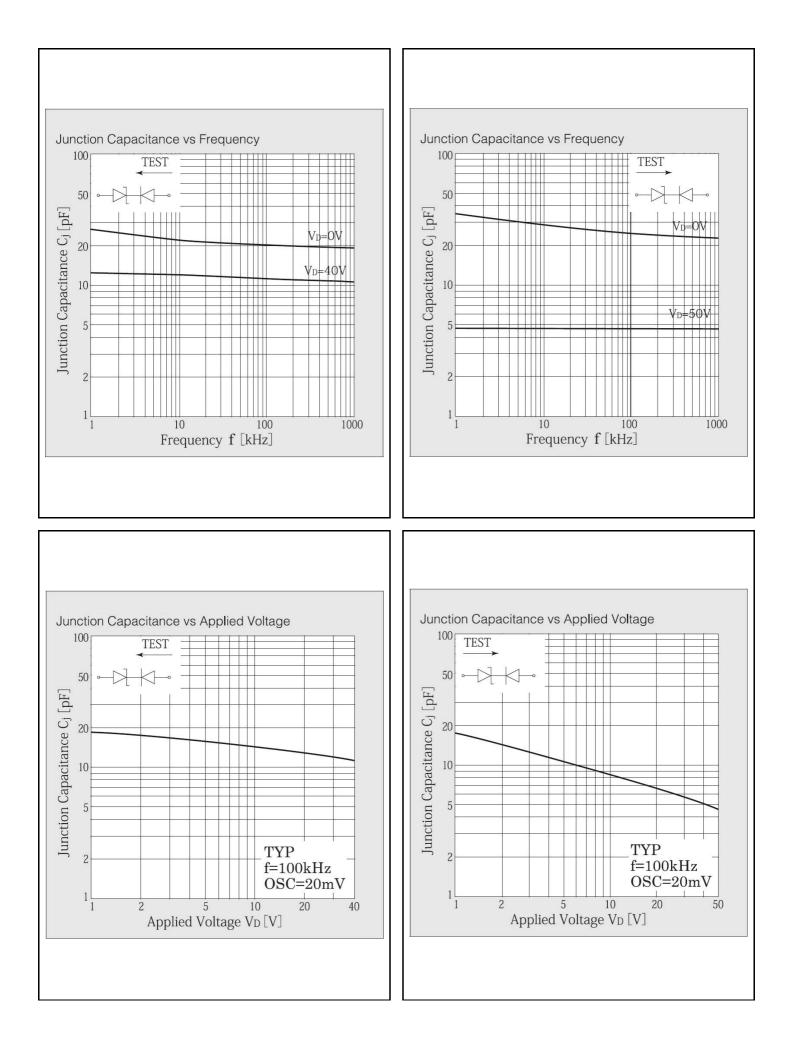
\* : See the original Specifications

Electrical Characteristics (unless otherwise specified : TI=25°C)								
Item	Symbol	Conditions		Ratings				
	Symbol		MIN	ТҮР	MAX	Unit		
Breakdown voltage(ZD)	V <sub>BR</sub> (ZD)	IR=1mA	155	170	185	V		
Clamping Voltage(ZD)	V <sub>CL</sub> (ZD)	IPP=0.75A			280	V		
Reverse current(ZD)	I <sub>R</sub> (ZD)	VR=145V			5	μA		
Reverse current(Di)	I <sub>R</sub> (Di)	VR=600V			5	μA		
Reverse recovery time(Di)	trr(Di)	IF/IR=0.1A/0.3A			500	ns		
Thermal resistance	Rth(j-l)	Junction to lead			17	°C/W		

\* : See the original Specifications

# **CHARACTERISTIC DIAGRAMS**

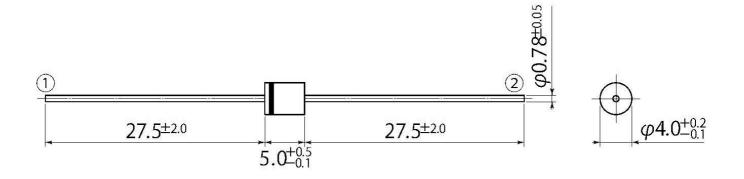




unit:mm

scale: 2/1

A4	JEDEC Code	—		
	JEITA Code			
	House Name	AX078		



## Notes

- 1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
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### [Special applications]

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### [Specific applications]

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