

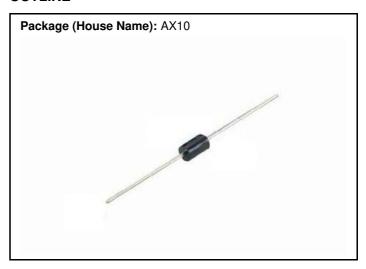
## ST03D-170

# Power Clampers 300W, 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	300	W
Maximum surge reverse current(ZD)	I <sub>RSM</sub> (ZD)	10/1000μs, Non-repetitive	1.1	Α
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

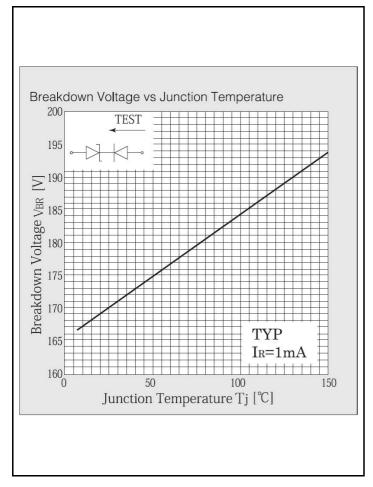
<sup>\* :</sup>See the original Specifications

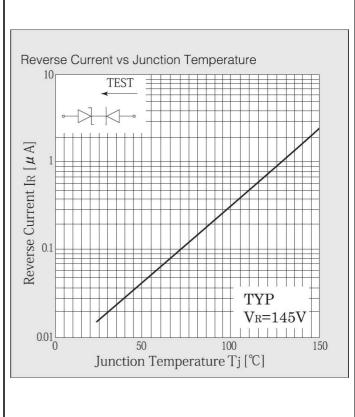
## **Electrical Characteristics** (unless otherwise specified : TI=25°C)

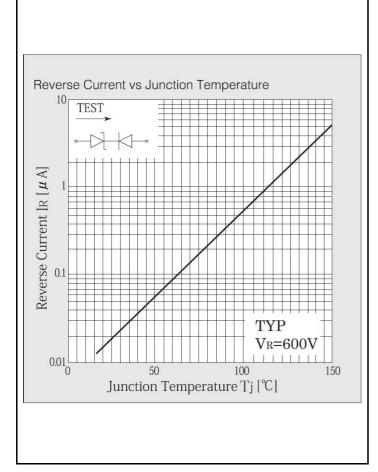
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Breakdown voltage(ZD)	V <sub>BR</sub> (ZD)	IR=1mA	155	170	185	V
Clamping Voltage(ZD)	V <sub>CL</sub> (ZD)	IPP=1.1A			280	V
Reverse current(ZD)	I <sub>R</sub> (ZD)	VR=145V			5	μΑ
Reverse current(Di)	I <sub>R</sub> (Di)	VR=600V			5	μΑ
Reverse recovery time(Di)	trr(Di)	IF/IR=0.1A/0.3A			500	ns
Thermal resistance	Rth(j-l)	Junction to lead			13	°C/W

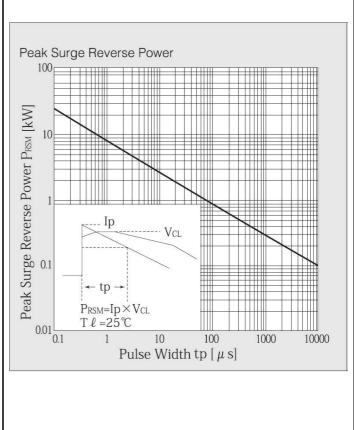
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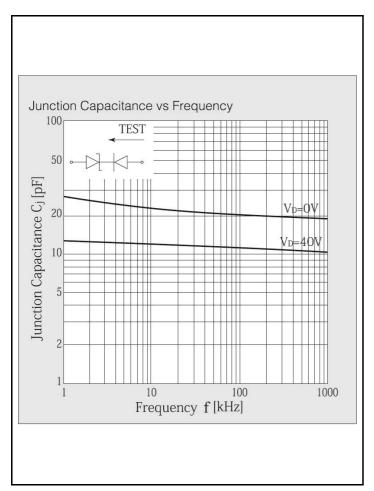
## **CHARACTERISTIC DIAGRAMS**

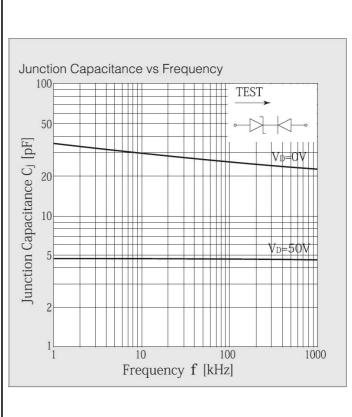


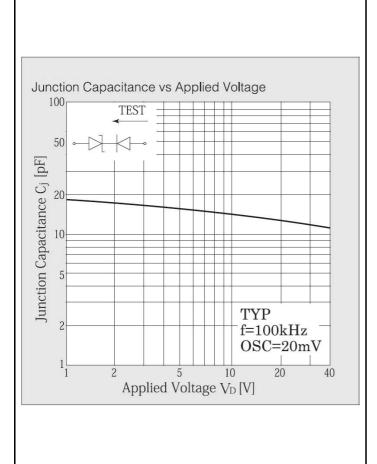


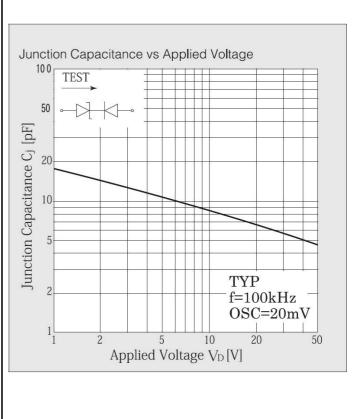










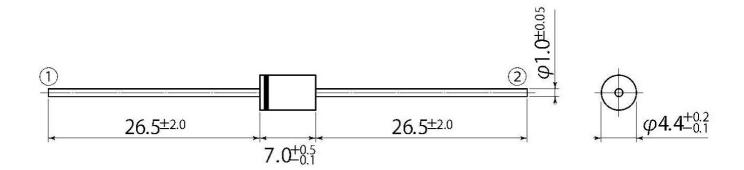


unit:mm

scale: 2/1

**A5** 

JEDEC Code	_	
JEITA Code	_	
House Name	AX10	



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