

# ST02-100F1

## **TVS**

1.7A, 200W

#### **Feature**

- Peak pulse power:200W
- · Small SMD
- · Based on AEC-Q101
- · 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 temperature	Tstg		-55 to 175	°C
Operating junction temperature	Tj		-55 to 150	°C
Maximum surge reverse current	I <sub>RSM</sub>	10/1000μs, Non-repetitive, Exponential wave *	1.7	Α
Maximum surge reverse power	P <sub>RSM</sub>	10/1000μs, Non-repetitive *	200	W
Continuous (direct) reverse voltage	V <sub>R(DC)</sub>		80	V

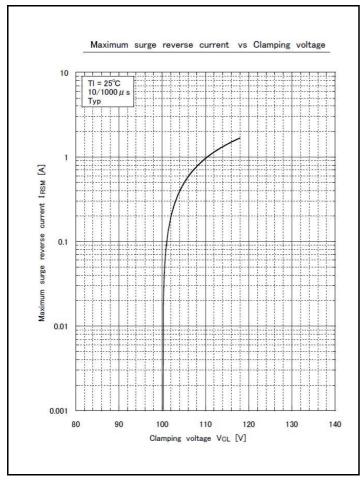
<sup>\* :</sup>See the original Specifications

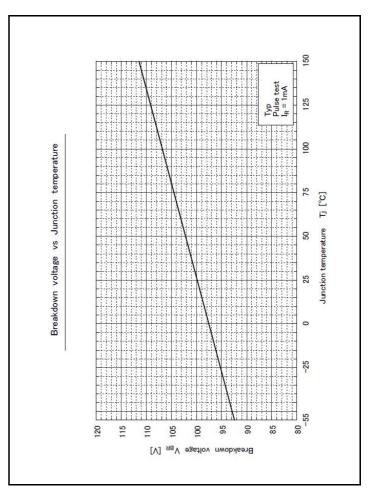
## **Electrical Characteristics** (unless otherwise specified : TI=25°C)

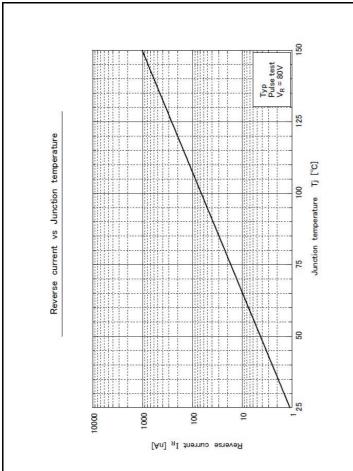
Item	Symbol	Conditions	Ratings			Unit
		Conditions		TYP	MAX	Onne
Breakdown voltage	V <sub>BR</sub>	IR=1mA, Pulse measurement	90		110	V
Reverse current	I <sub>R</sub>	VR=80V, Pulse measurement			5	μΑ
Electrostatic discharge capability	V <sub>ESD</sub>	C=330pF, R=330Ω, Polarity±, Aerial discharge *		30		kV
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			23	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			157	°C/W

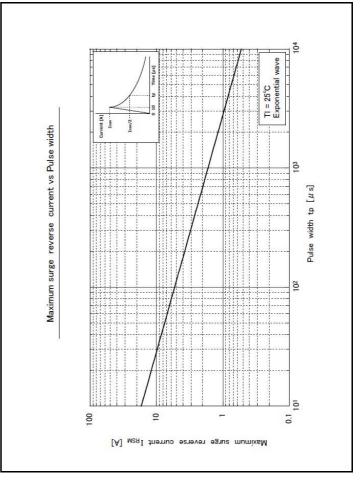
<sup>\* :</sup> See the original Specifications

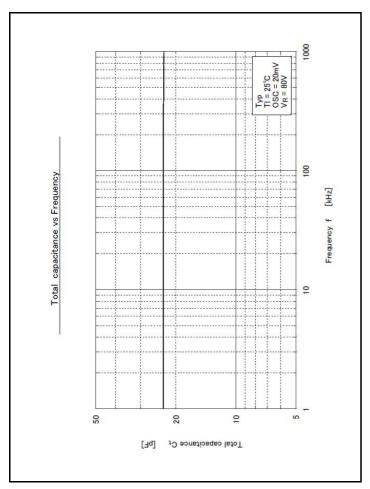
## **CHARACTERISTIC DIAGRAMS**

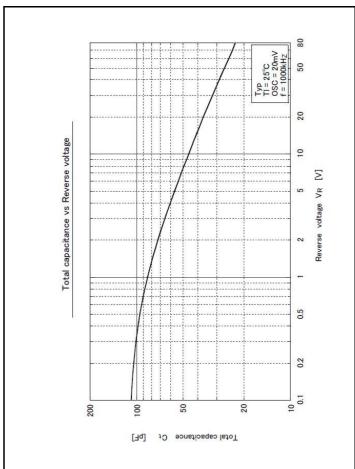


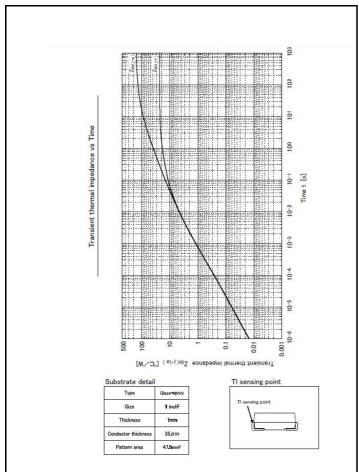








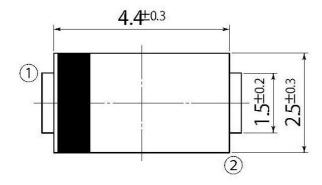


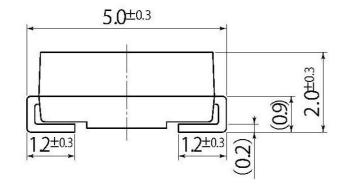


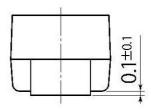
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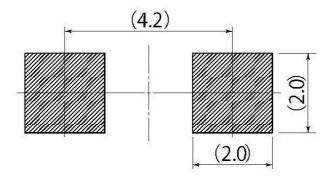
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JEDEC Code	DO-214AC	
JEITA Code	-	
House Name	1F	









Referential Soldering Pad

<sup>•</sup> Optimize soldering pad to the board design and soldering condition.

#### **Notes**

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