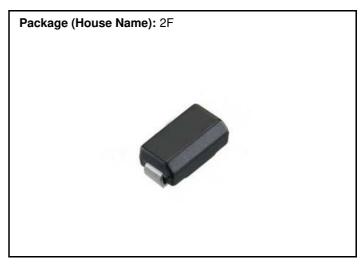
ST20-47F2

TVS 31A, 1700W

Feature

- Peak pulse power:1700W
- SMD
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

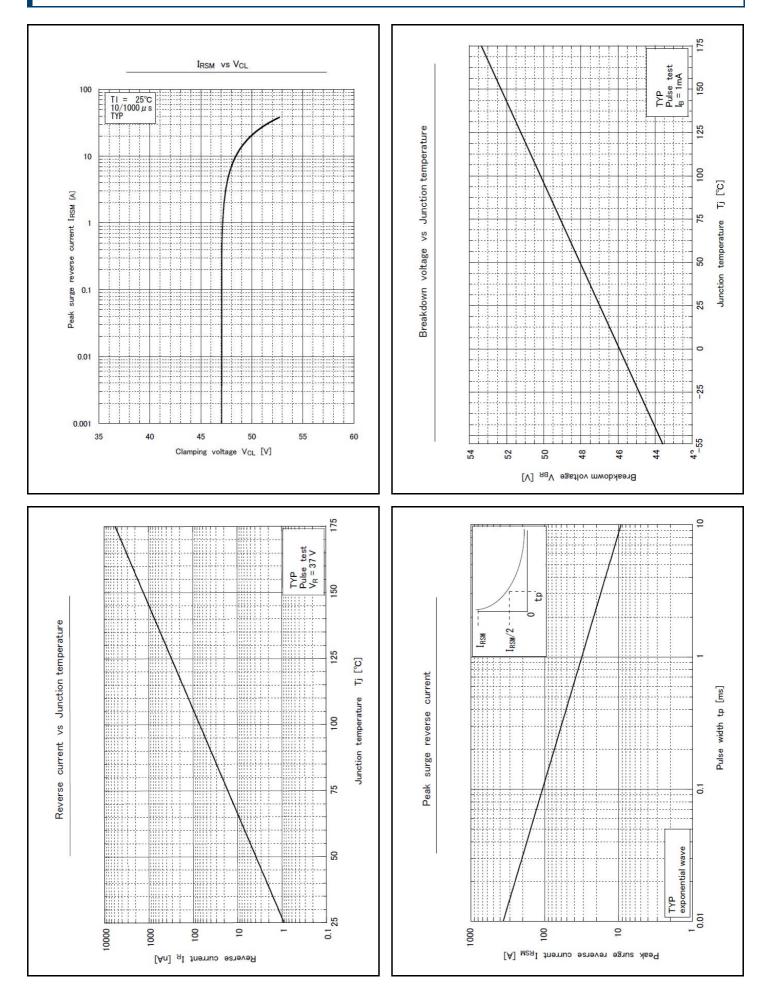
Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-55 to 175	°C
Operating junction temperature	Tj		-55 to 175	°C
Maximum surge reverse current	I _{RSM}	10/1000µs, Non-repetitive ※	31	А
Maximum surge reverse power	P _{RSM}	10/1000µs, Non-repetitive ※	1700	W
Continuous (direct) reverse voltage	V _{R(DC)}		37	V

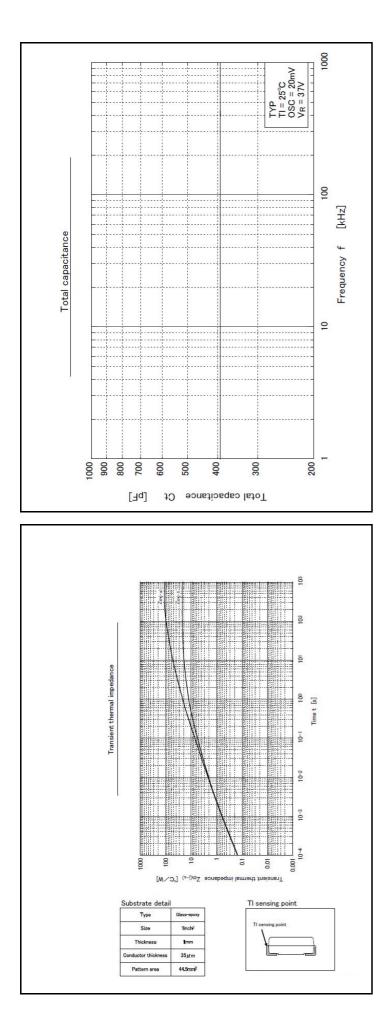
* : See the original Specifications

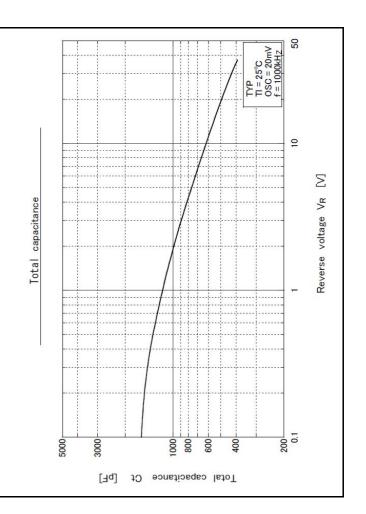
Electrical Characteristics (unless otherwise specified : TI=25°C)								
ltem	Symbol	Conditions	Ratings			Unit		
			MIN	ТҮР	MAX	onin		
Breakdown voltage	V _{BR}	IR=1mA	42	47	52	V		
Reverse current	I _R	VR=37V, Pulse measurement			5	μA		
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *	1		23	°C/W		
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *	1		115	°C/W		
Temperature coefficient	rz				0.12	%/°C		

* : See the original Specifications

CHARACTERISTIC DIAGRAMS





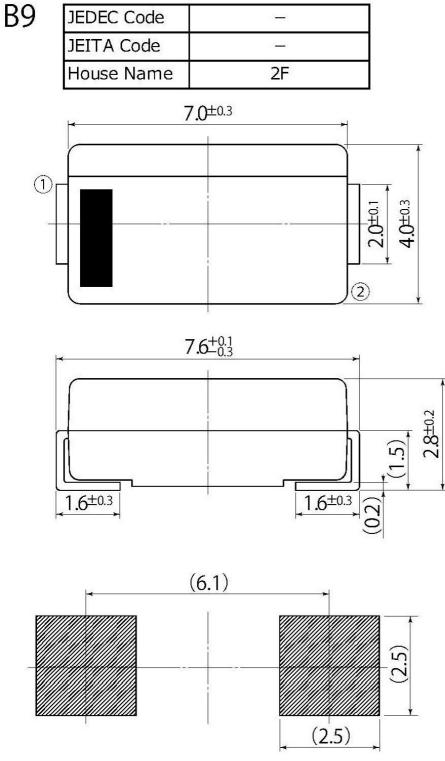


unit:mm

scale: 10/1

C 0.8

0.1±0.1



Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.

Notes

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