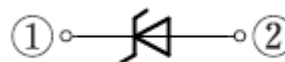


ST20-47F2**TVS****31A, 1700W****Feature**

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

OUTLINE**Package (House Name): 2F****Equivalent circuit****Absolute Maximum Ratings** (unless otherwise specified : Tl=25°C)

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

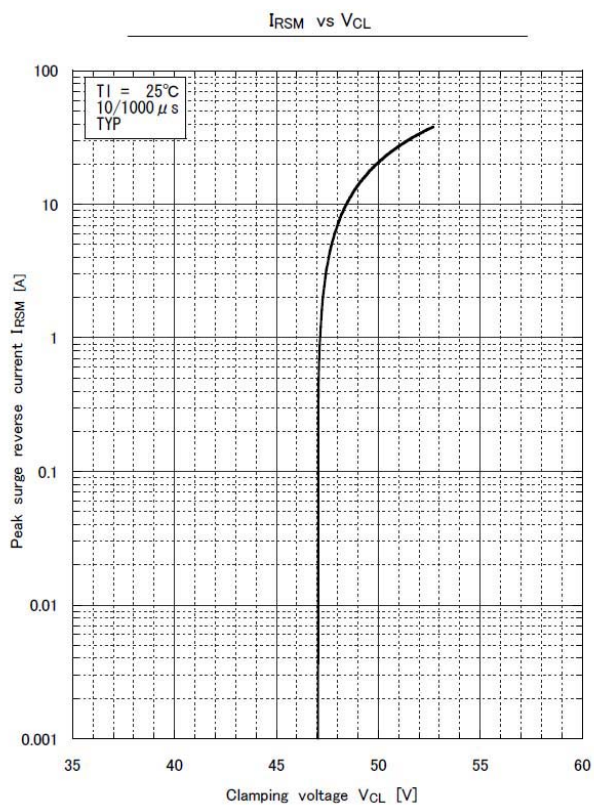
※ :See the original Specifications

Electrical Characteristics (unless otherwise specified : Tl=25°C)

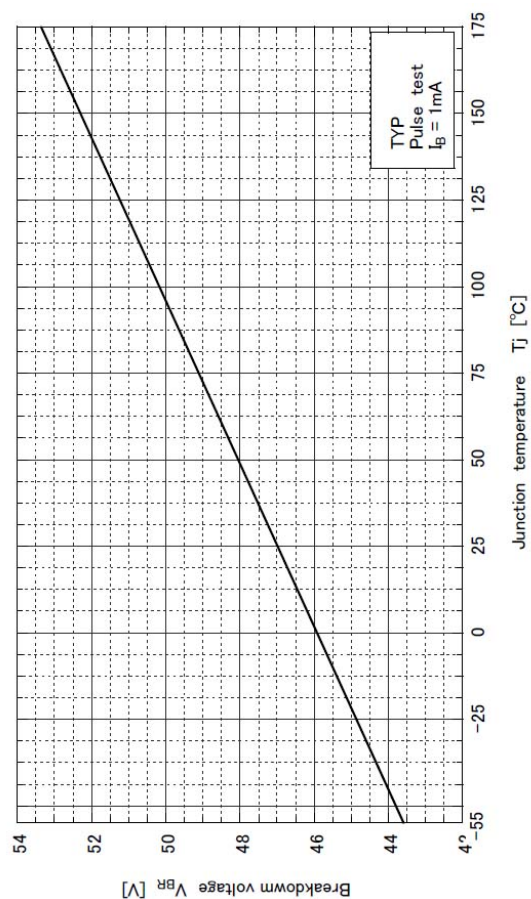
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakdown voltage	V _{BR}	I _R =1mA	42	47	52	V
Reverse current	I _R	V _R =37V, Pulse measurement			5	μA
Thermal resistance	R _{th(j-l)}	Junction to lead, On glass-epoxy substrate ※			23	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient, On glass-epoxy substrate ※			115	°C/W
Temperature coefficient	rz				0.12	%/°C

※ :See the original Specifications

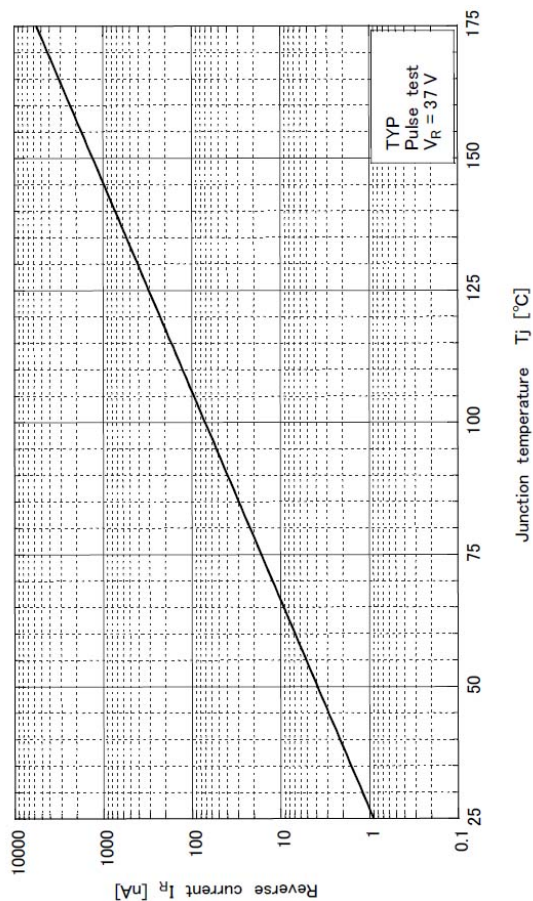
CHARACTERISTIC DIAGRAMS



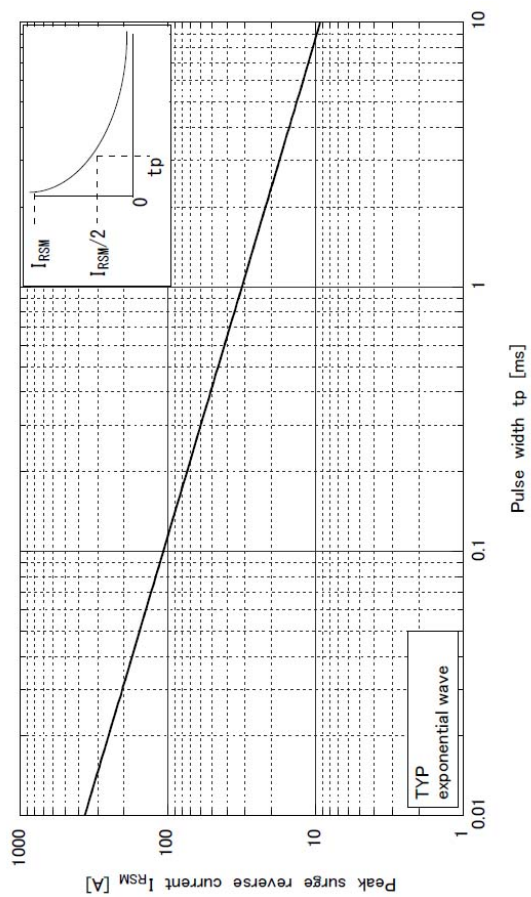
Breakdown voltage vs Junction temperature

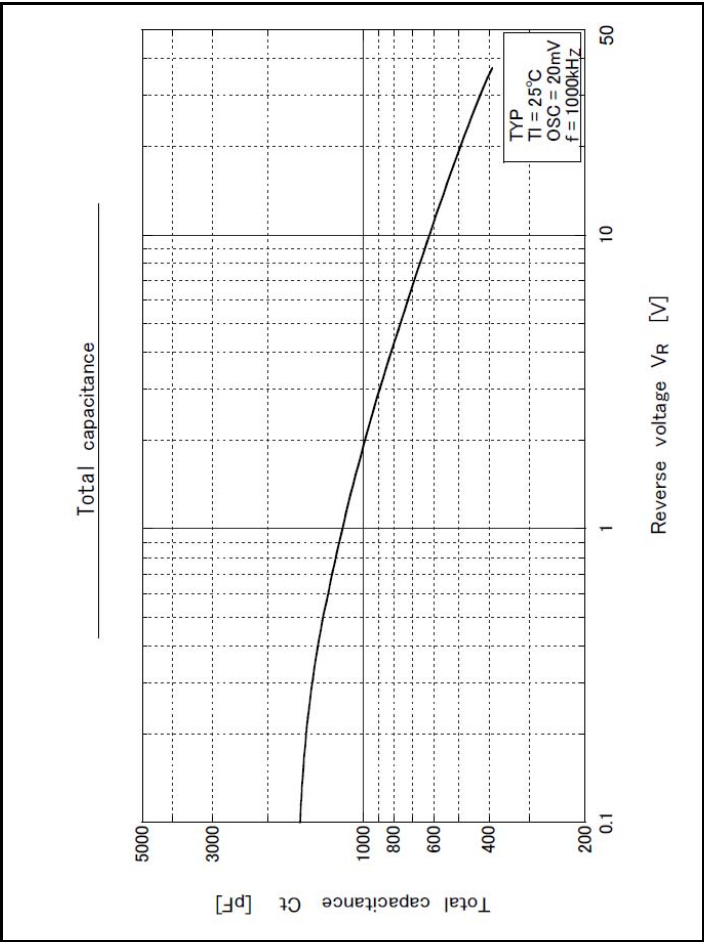
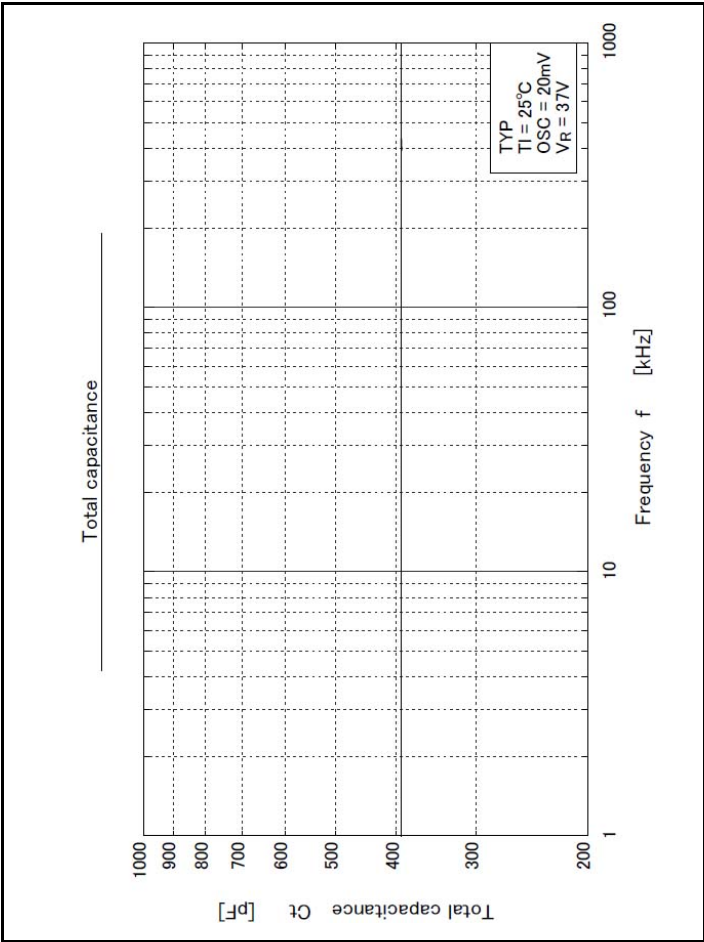
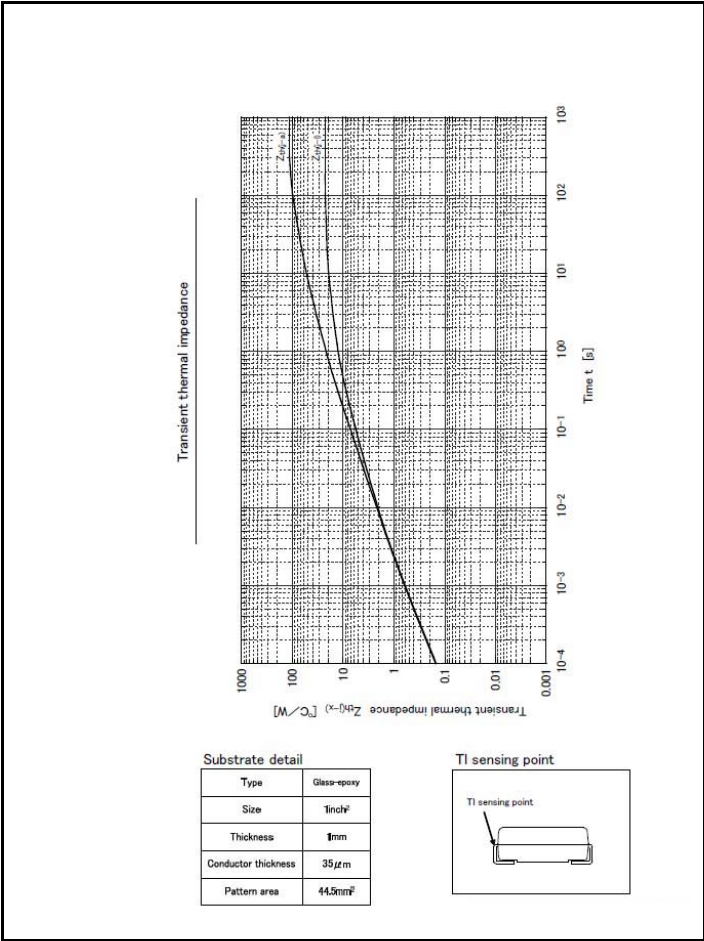


Reverse current vs Junction temperature



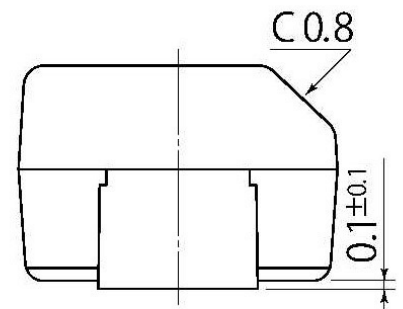
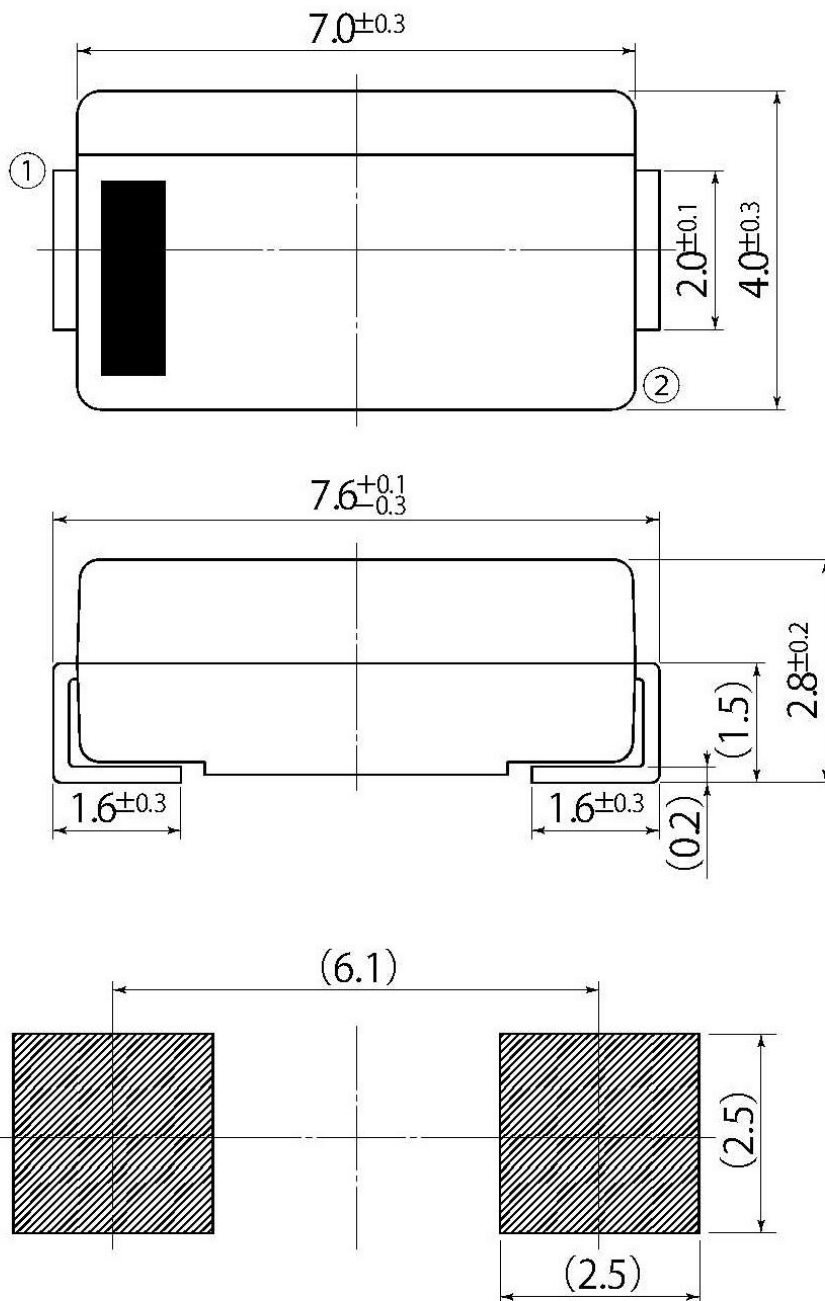
Peak surge reverse current





B9

JEDEC Code	—
JEITA Code	—
House Name	2F



Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condition.

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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