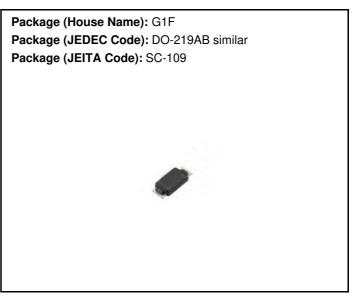
# ST02-36G1 TVS 4.0A, 200W

## Feature

- Peak pulse power:200W
- Ultra-small 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 <sub>RSM</sub>   | 10/1000µs, Non-repetitive, Exponential wave * | 4          | А    |
| Maximum surge reverse power         | P <sub>RSM</sub>   | 10/1000µs, Non-repetitive ※                   | 200        | W    |
| Continuous (direct) reverse voltage | V <sub>R(DC)</sub> |   | 27         | V    |

\* : See the original Specifications

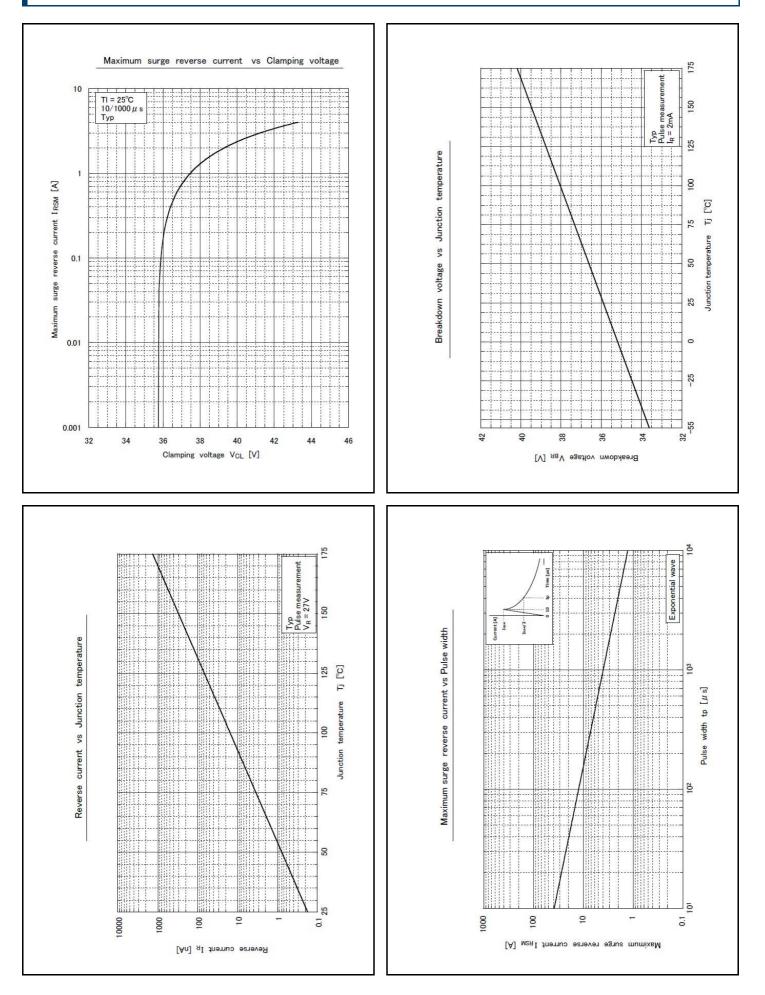
# Electrical Characteristics (unless otherwise specified : TI=25°C)

| ltem               | Symbol          | Conditions                                      | Ratings |     |     | Unit |
|--------------------|-----------------|---|---------|-----|-----|------|
|                    |                 |   | MIN     | ТҮР | MAX |      |
| Breakdown voltage  | V <sub>BR</sub> | IR=2mA, Pulse measurement                       |         | 36  | 38  | V    |
| Reverse current    | I <sub>R</sub>  | VR=27V, Pulse measurement                       |         |     | 5   | μA   |
| Thermal resistance | Rth(j-l)        | Junction to lead, On glass-epoxy substrate *    |         |     | 20  | °C/W |
| Thermal resistance | Rth(j-a)        | Junction to ambient, On glass-epoxy substrate * |         |     | 120 | °C/W |

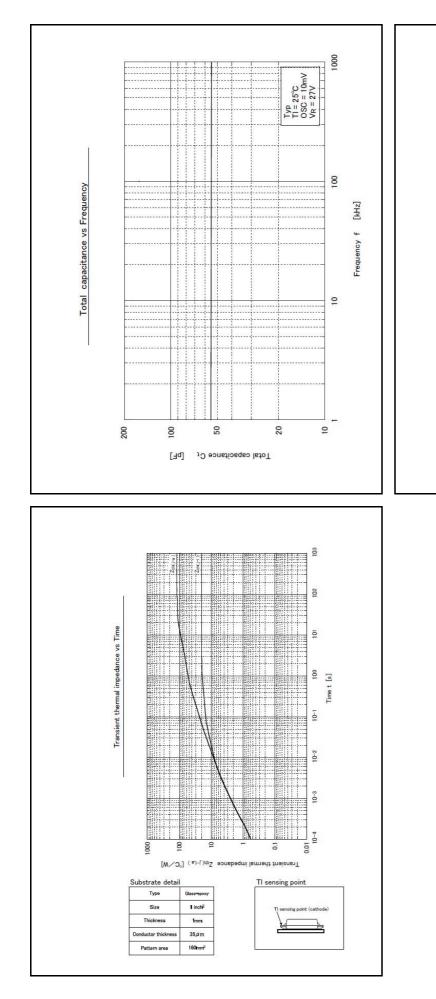
\* : See the original Specifications

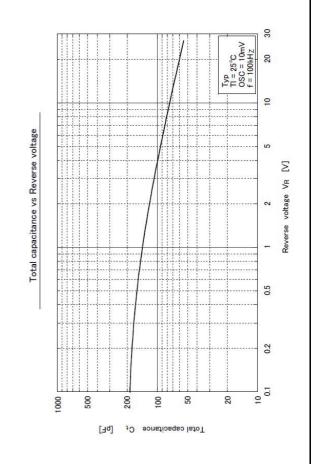
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# CHARACTERISTIC DIAGRAMS



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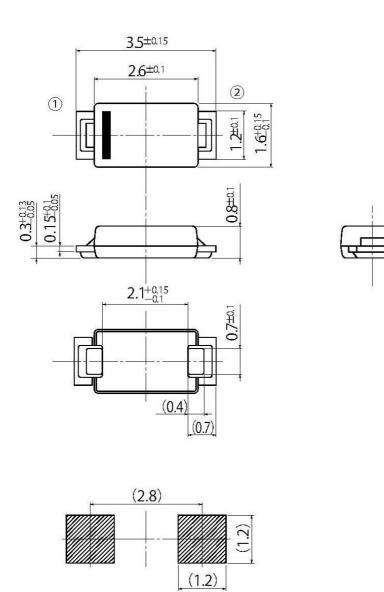




## unit:mm

scale: 10/1

| B1         | JEDEC Code | DO-219AB similar |  |  |  |
|------------|------------|------------------|--|--|--|
| JEITA Code |            | SC-109           |  |  |  |
| House Name |            | G1F              |  |  |  |



**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.
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#### [Specific applications]

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