

ST06-18CE

TVS  
26A, 600W

Feature

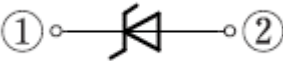
- Peak pulse power:600W
- Small SMD
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): CE  
Package (JEITA Code): SC-110B



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 175 | °C   |
| Maximum surge reverse current       | I <sub>RSM</sub>   | 10/1000μs, Non-repetitive, Exponential wave ※ | 26         | A    |
| Maximum surge reverse power         | P <sub>RSM</sub>   | 10/1000μs, Non-repetitive                     | 600        | W    |
| Continuous (direct) reverse voltage | V <sub>R(DC)</sub> |                                               | 13         | V    |

※ :See the original Specifications

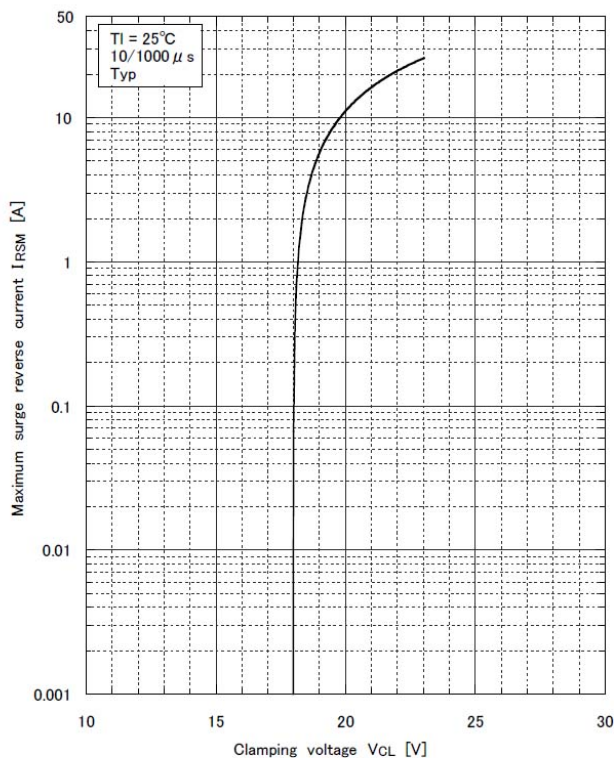
**Electrical Characteristics** (unless otherwise specified : Tl=25°C)

| Item                               | Symbol        | Conditions                                      | Ratings |     |      | Unit |
|------------------------------------|---------------|-------------------------------------------------|---------|-----|------|------|
|                                    |               |                                                 | MIN     | TYP | MAX  |      |
| Breakdown voltage                  | $V_{BR}$      | IR=1mA, Pulse measurement                       | 16.8    |     | 19.1 | V    |
| Reverse current                    | $I_R$         | VR=13V, Pulse measurement                       |         |     | 5    | μA   |
| Electrostatic discharge capability | $V_{ESD}$     | C=330pF, R=330Ω, Polarity±, Aerial discharge ※  |         | 30  |      | kV   |
| Thermal resistance                 | $R_{th(j-l)}$ | Junction to lead, On glass-epoxy substrate      |         |     | 15   | °C/W |
| Thermal resistance                 | $R_{th(j-a)}$ | Junction to ambient, On glass-epoxy substrate ※ |         |     | 115  | °C/W |
| Thermal resistance                 | $R_{th(j-a)}$ | Junction to ambient, On glass-epoxy substrate ※ |         |     | 172  | °C/W |

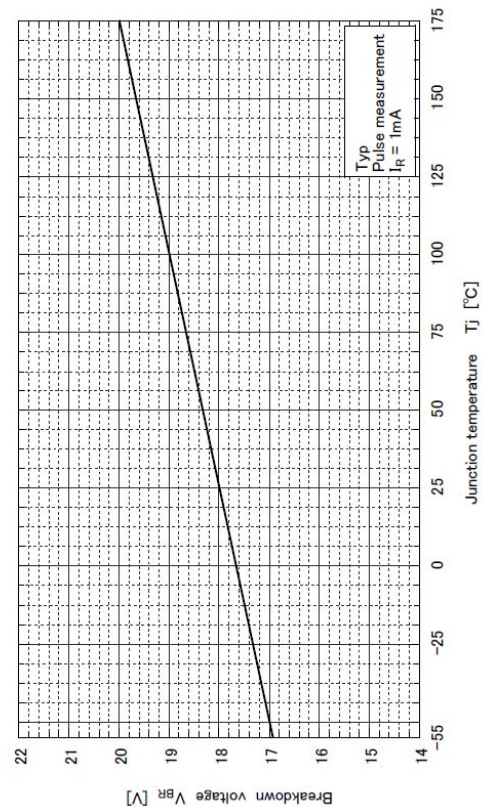
※ :See the original Specifications

# CHARACTERISTIC DIAGRAMS

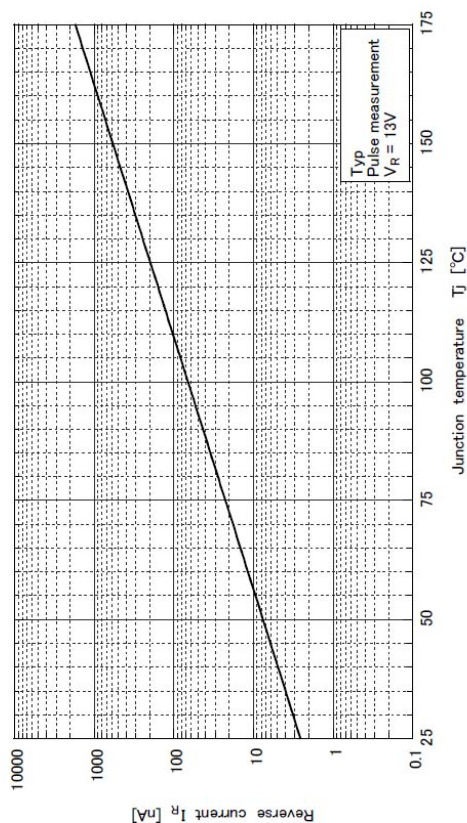
Maximum surge reverse current vs Clamping voltage



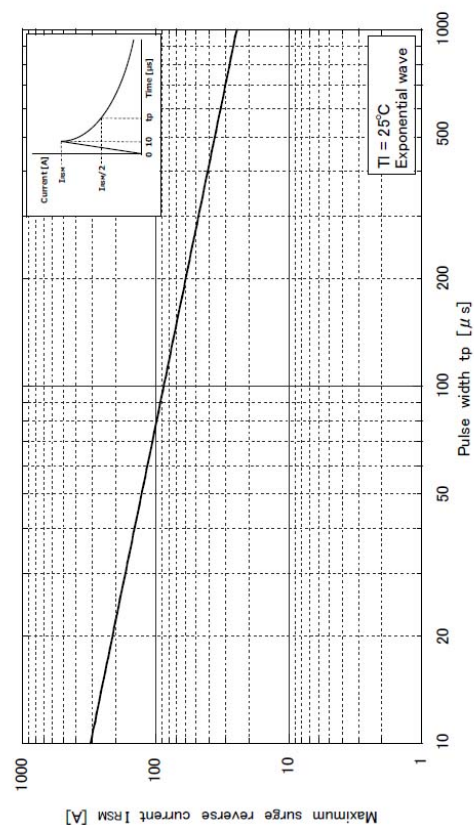
Breakdown voltage vs Junction temperature

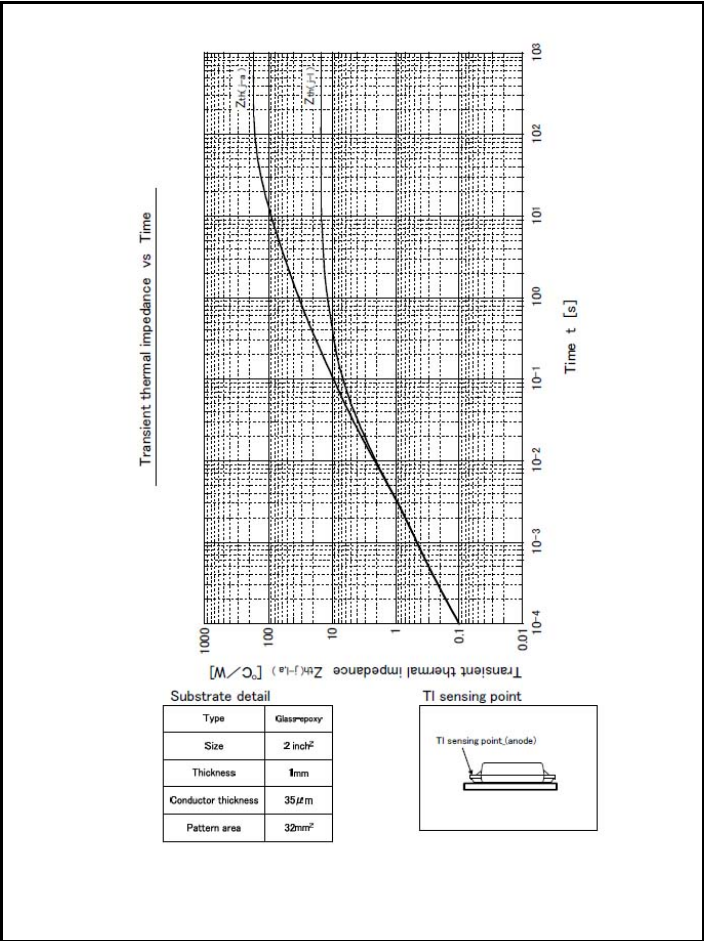
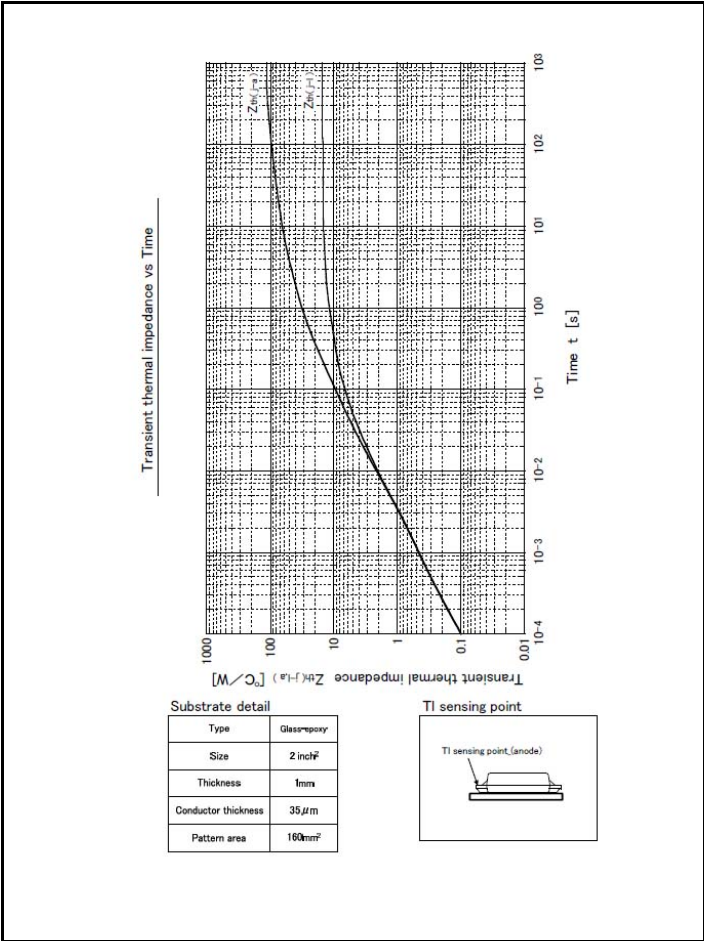
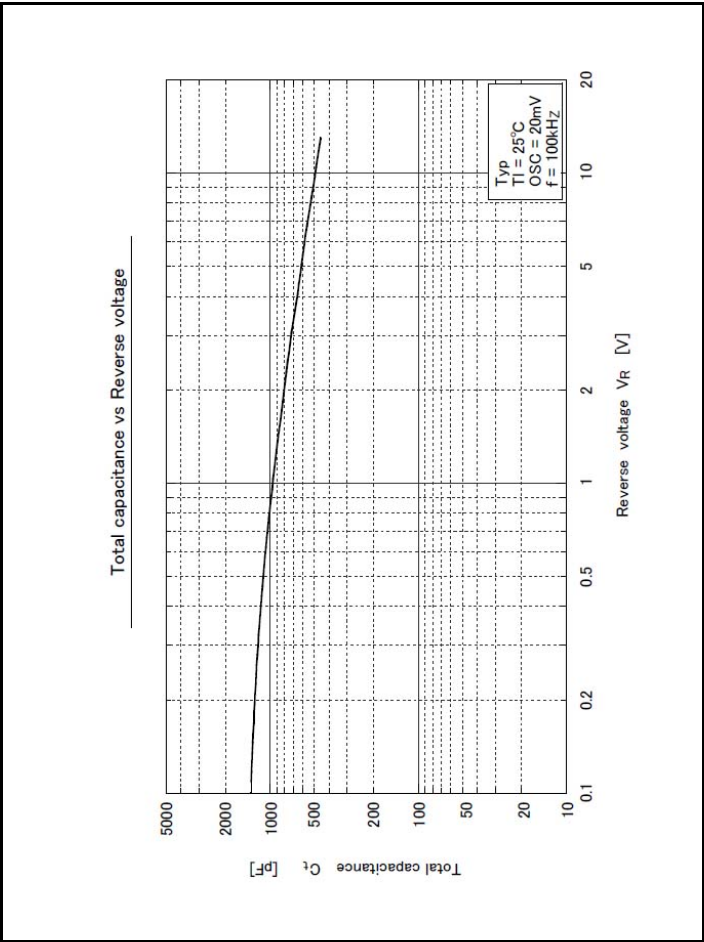
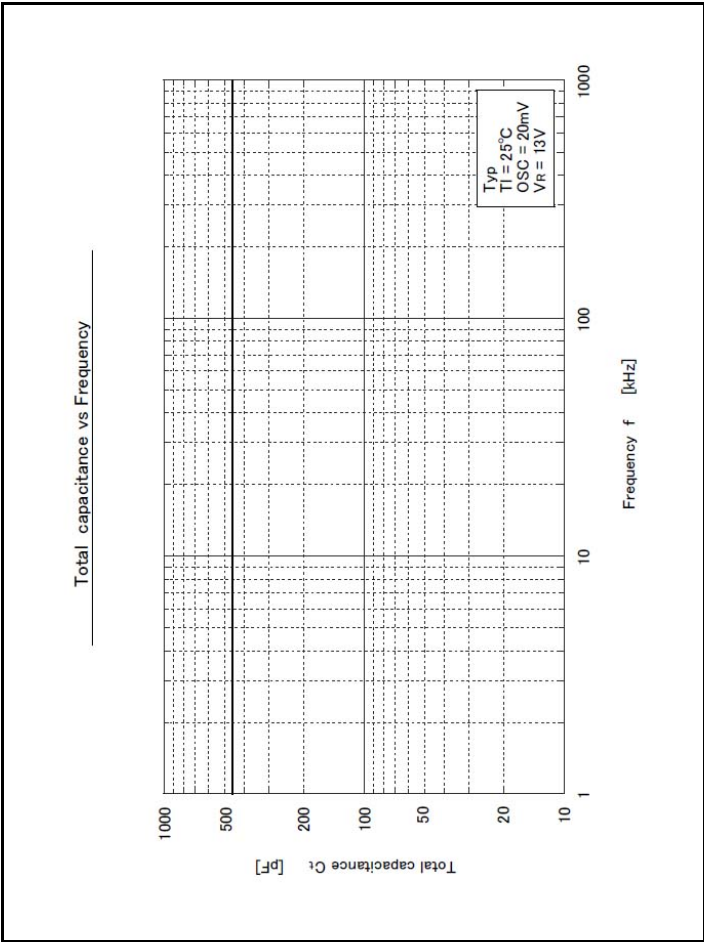


Reverse current vs Junction temperature



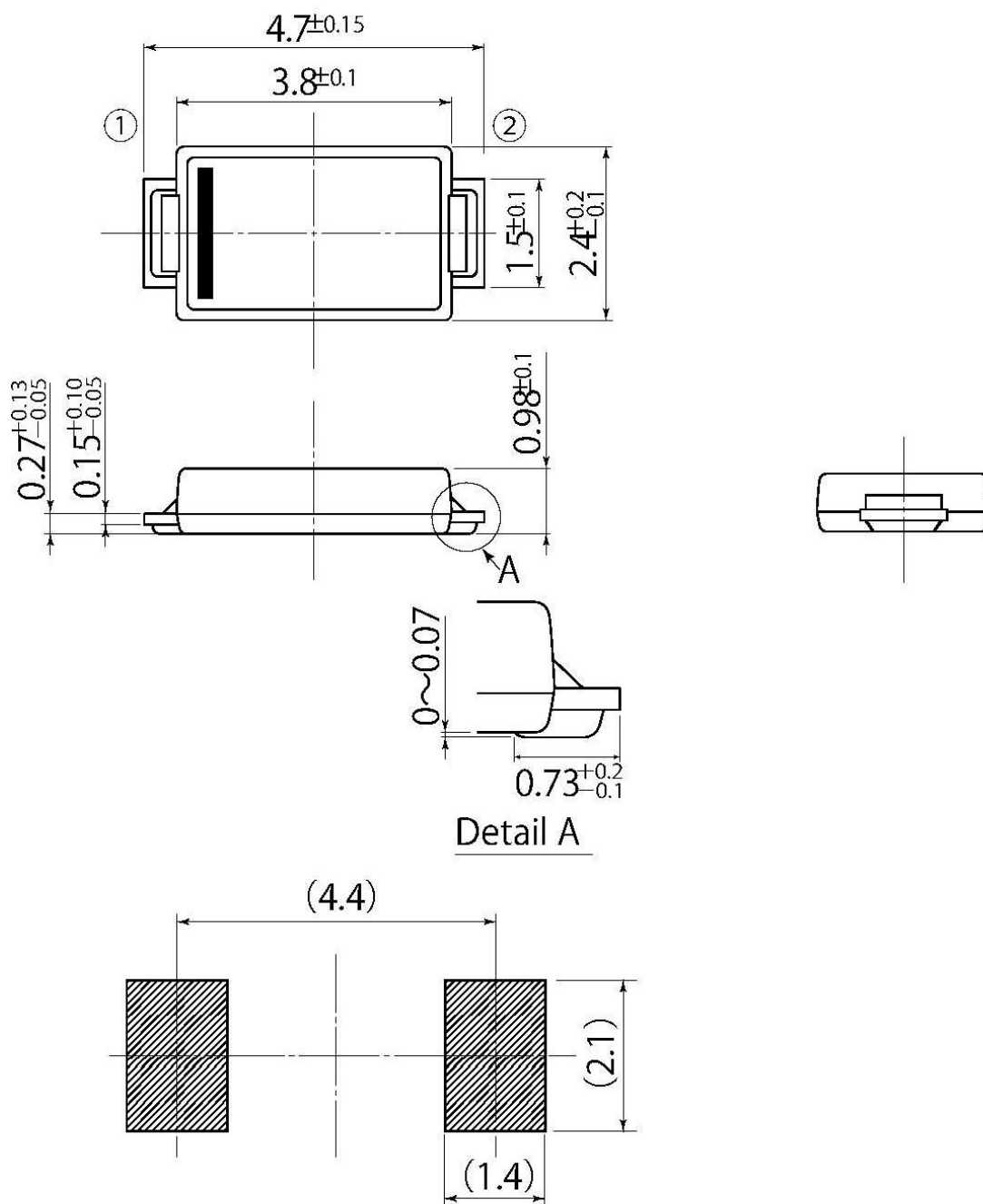
Maximum surge reverse current vs Pulse width





B5

|            |         |
|------------|---------|
| JEDEC Code | —       |
| JEITA Code | SC-110B |
| House Name | CE      |



Referential Soldering Pad

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



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