

ST70-27FZ

TVS
180A, 7000W

Feature

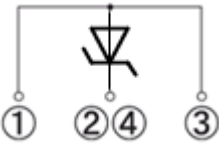
- Peak pulse power:7000W
- SMD
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): FZ
Package (JEDEC Code): TO-263AB



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=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 | IRSM | 10/1000μs, Non-repetitive ※ | 180 | A |
| Maximum surge reverse power | PRSM | 10/1000μs, Non-repetitive ※ | 7000 | W |
| Continuous (direct) reverse voltage | VR(DC) | | 23 | V |

※ :See the original Specifications

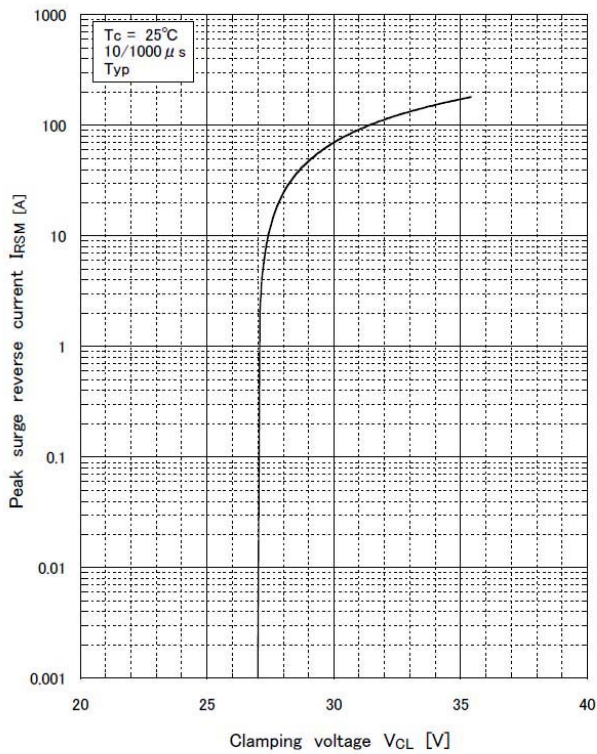
Electrical Characteristics (unless otherwise specified : Tc=25°C)

| Item | Symbol | Conditions | Ratings | | | Unit |
|--------------------|----------|---------------------------------|---------|-----|-----|------|
| | | | MIN | TYP | MAX | |
| Breakdown voltage | VBR | IR=1mA, Pulse measurement | 25 | | 29 | V |
| Reverse current | IR | VR=23V, Pulse measurement | | | 5 | μA |
| Thermal resistance | Rth(j-c) | Junction to case, With heatsink | | | 0.6 | °C/W |

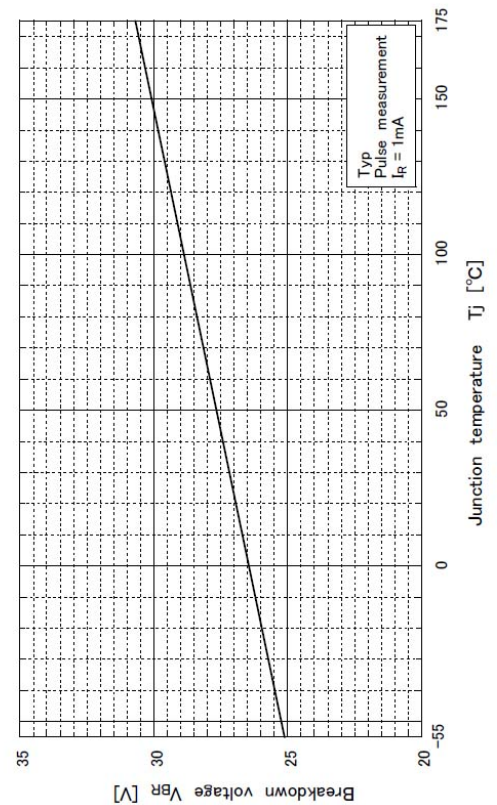
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

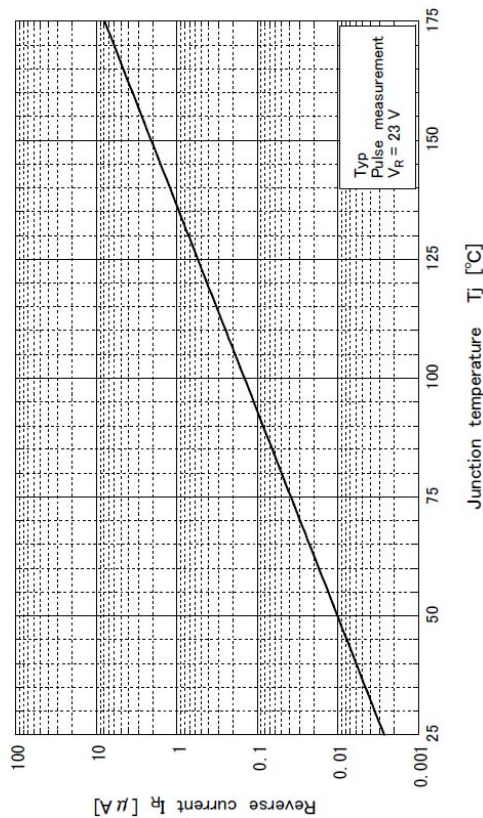
Peak surge reverse current vs Clamping voltage



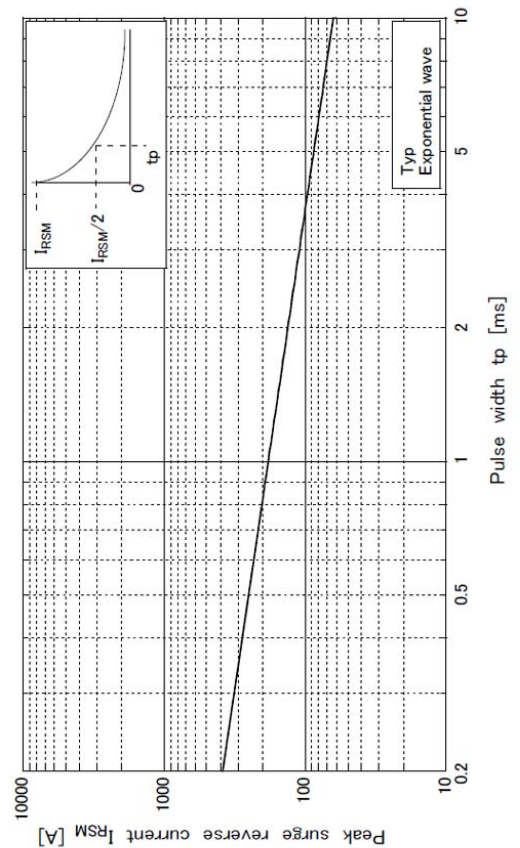
Breakdown voltage vs Junction temperature

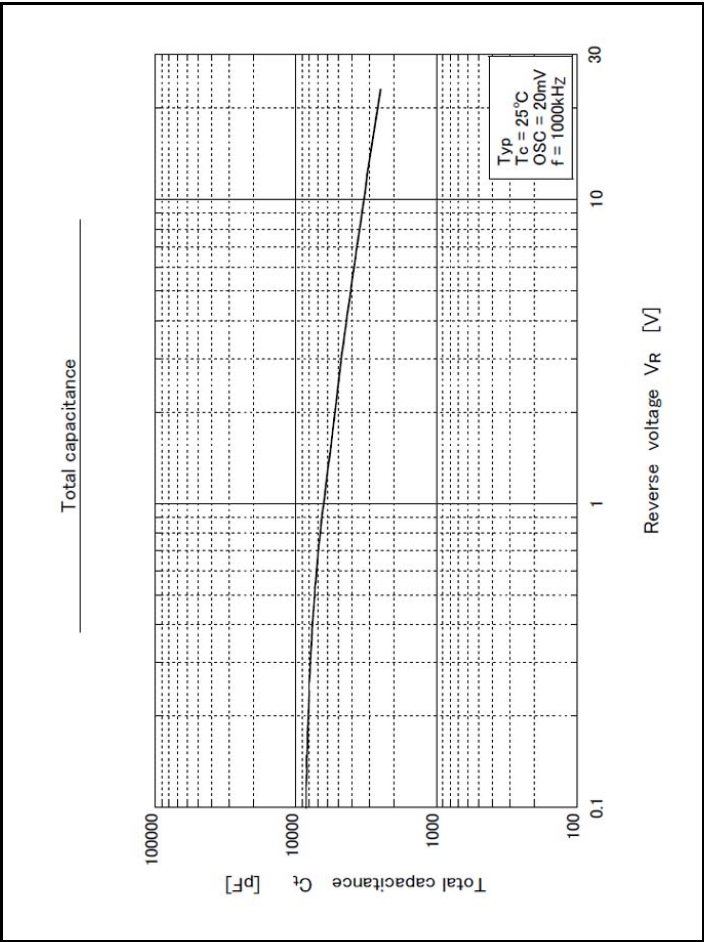
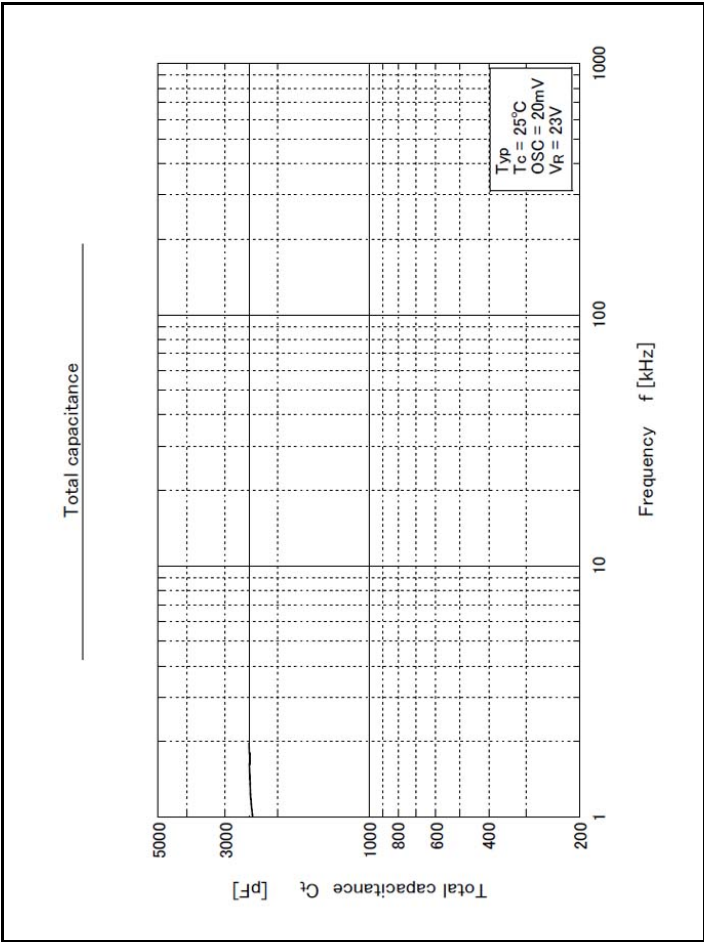
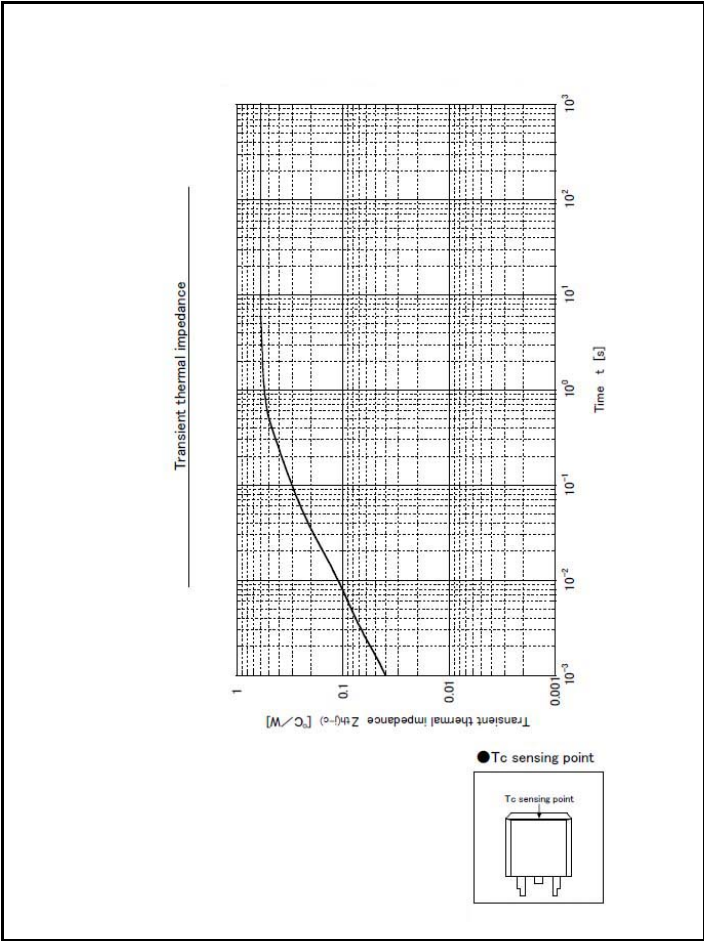


Reverse current vs Junction temperature



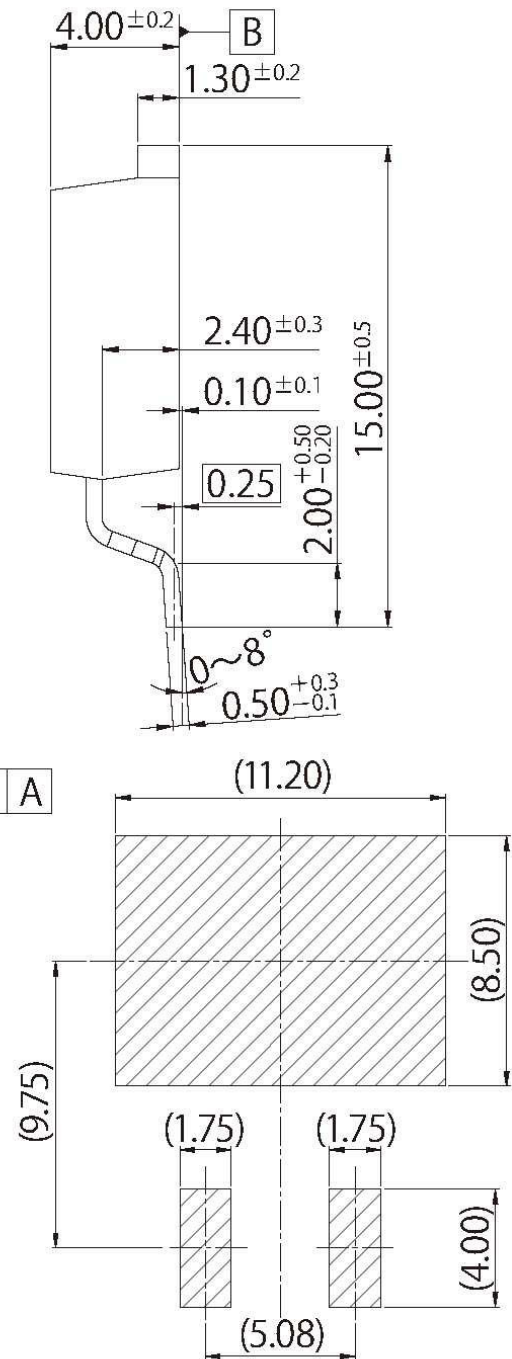
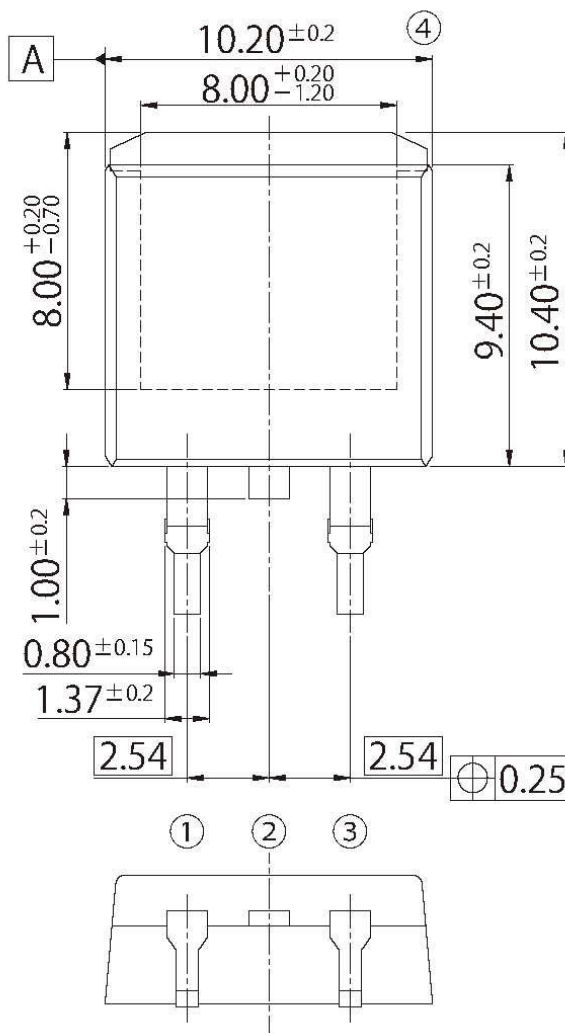
Peak surge reverse current





H6

| | |
|------------|----------|
| JEDEC Code | TO-263AB |
| JEITA Code | — |
| House Name | FZ |



Referential Soldering Pad

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

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