

ST04-18F1

TVS 15A, 400W

Feature

- Peak pulse power:400W
- · Small SMD
- · Based on AEC-Q101
- · Pb free terminal
- RoHS:Yes

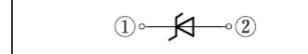
OUTLINE

Package (House Name): 1F

Package (JEDEC Code): DO-214AC



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 _{RSM} | 10/1000μs, Non-repetitive * | 15 | Α |
| Maximum surge reverse power | P _{RSM} | 10/1000μs, Non-repetitive * | 400 | W |
| Continuous (direct) reverse voltage | V _{R(DC)} | | 15.3 | V |

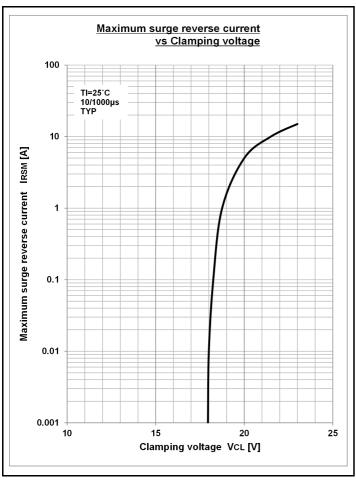
^{* :}See the original Specifications

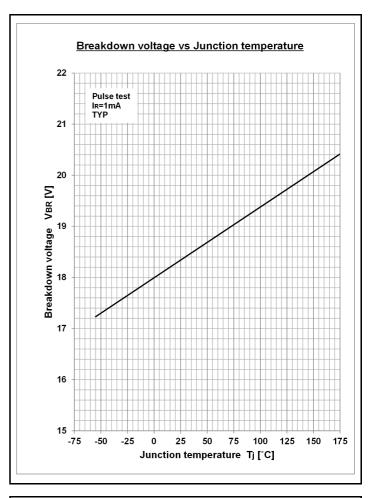
Electrical Characteristics (unless otherwise specified : TI=25°C)

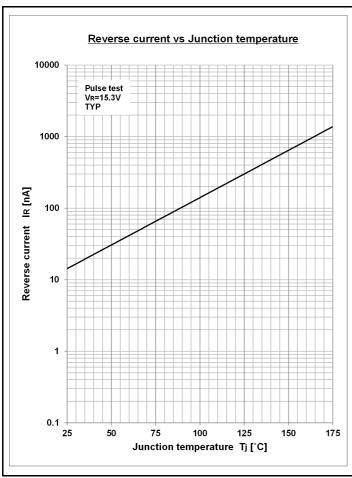
| Item | Symbol | Conditions | Ratings | | | Unit |
|------------------------------------|------------------|---|---------|-----|------|------|
| | | Conditions | | TYP | MAX | Omit |
| Breakdown voltage | V_{BR} | IR=1mA, Pulse measurement | 16.8 | | 19.1 | V |
| Reverse current | I _R | VR=15.3V, Pulse measurement | | | 5 | μΑ |
| Electrostatic discharge capability | V _{ESD} | C=330pF, R=330Ω, Polarity±, Aerial discharge * | | 30 | | kV |
| Thermal resistance | Rth(j-l) | Junction to lead, On glass-epoxy substrate * | | | 23 | °C/W |
| Thermal resistance | Rth(j-a) | Junction to ambient, On glass-epoxy substrate * | | | 157 | °C/W |

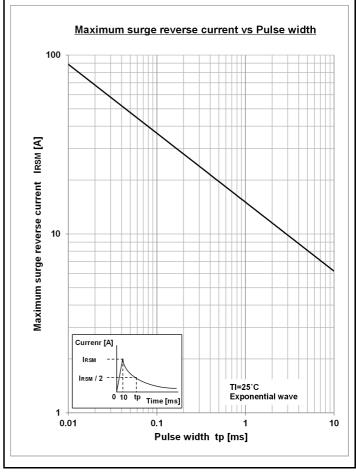
^{* :} See the original Specifications

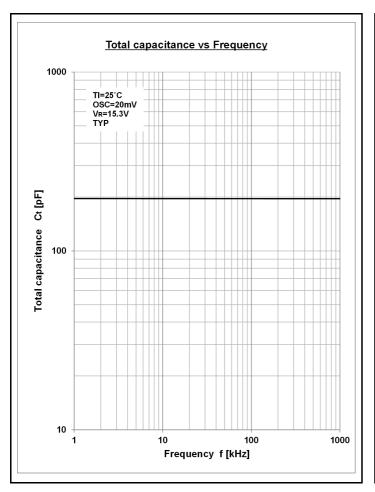
CHARACTERISTIC DIAGRAMS

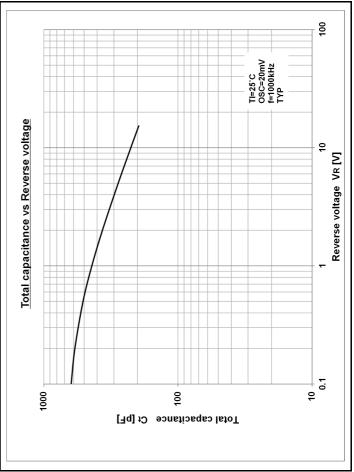


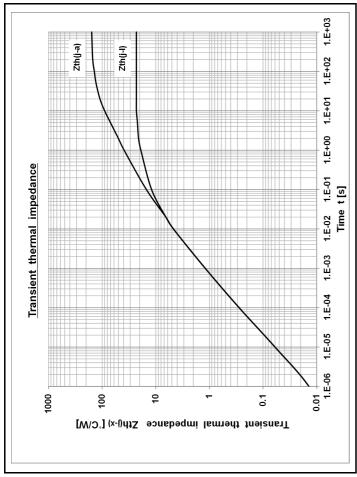








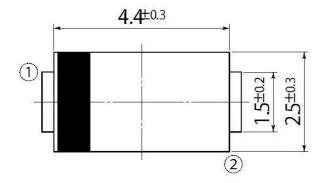


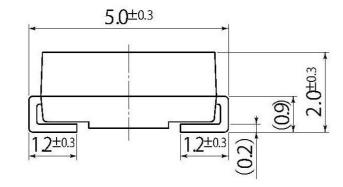


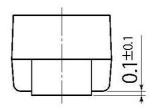
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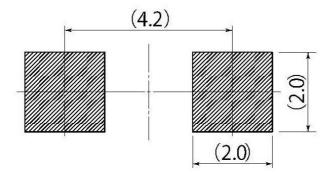
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| JEDEC Code | DO-214AC |
|------------|----------|
| JEITA Code | - |
| House Name | 1F |









Referential Soldering Pad

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

Notes

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(Special applications)

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