

# S15VT80

Bridge Diodes  
800V, 15A

## Feature

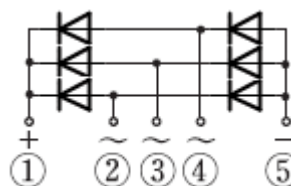
- Faston Terminal
- Pb free terminal
- RoHS:Yes

## OUTLINE

Package (House Name): SVT



## Equivalent circuit



## Absolute Maximum Ratings (unless otherwise specified : T<sub>c</sub>=25°C)

| Item                            | Symbol             | Conditions   | Ratings    | Unit             |
|---------------------------------|--------------------|--|------------|------------------|
| Storage temperature             | T <sub>stg</sub>   |  | -40 to 150 | °C               |
| Junction temperature            | T <sub>j</sub>     |  | 150        | °C               |
| Repetitive peak reverse voltage | V <sub>RRM</sub>   |  | 800        | V                |
| Average forward current         | I <sub>F(AV)</sub> | 50Hz sine wave, Resistance load, With heatsink, T <sub>c</sub> =132°C              | 15         | A                |
| Surge forward current           | I <sub>FSM</sub>   | 50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, T <sub>j</sub> =25°C | 200        | A                |
| Current squared time            | I <sup>2</sup> t   | 1ms ≤ t < 10ms, T <sub>j</sub> =25°C, per diode                                    | 160        | A <sup>2</sup> s |
| Dielectric strength             | V <sub>dis</sub>   | Terminals to case, AC 1 minute   | 2          | kV               |
| Mounting torque                 | TOR                | (Recommended torque : 0.6N·m)  | 0.8        | N·m              |

※ : See the original Specifications

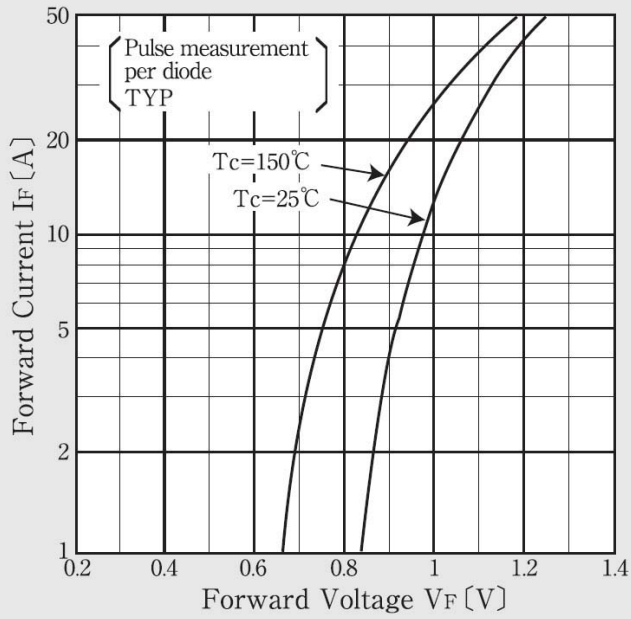
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

| Item               | Symbol               | Conditions   | Ratings |     |      | Unit |
|--------------------|----------------------|--|---------|-----|------|------|
|                    |                      |  | MIN     | TYP | MAX  |      |
| Forward voltage    | V <sub>F</sub>       | I <sub>F</sub> =5A, Pulse measurement, per diode   |         |     | 1.05 | V    |
| Reverse current    | I <sub>R</sub>       | V <sub>R</sub> =800V, Pulse measurement, per diode |         |     | 10   | μA   |
| Thermal resistance | R <sub>th(j-c)</sub> | Junction to case                                   |         |     | 0.6  | °C/W |

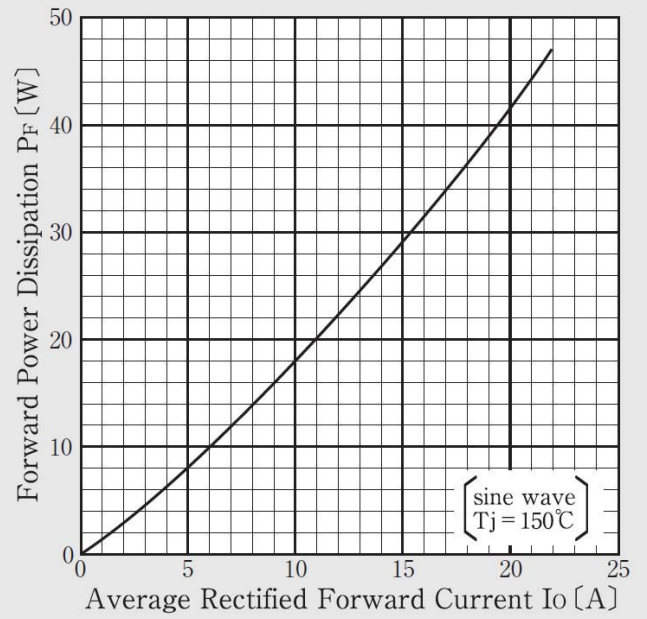
\* : See the original Specifications

# CHARACTERISTIC DIAGRAMS

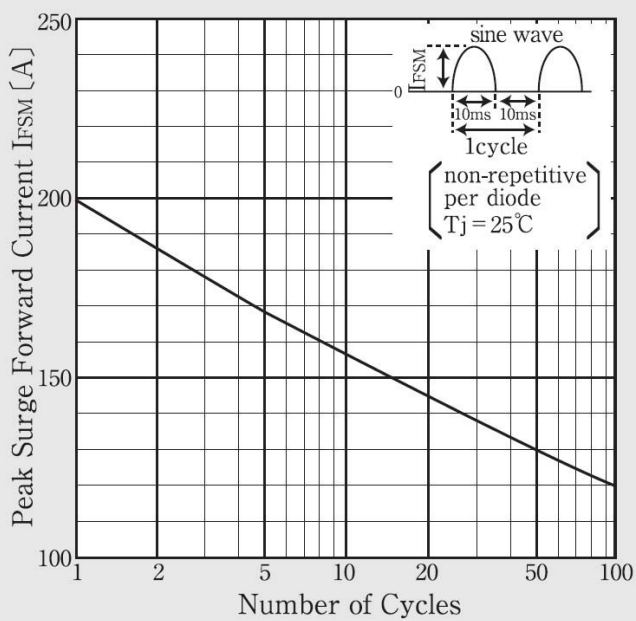
### Forward Voltage



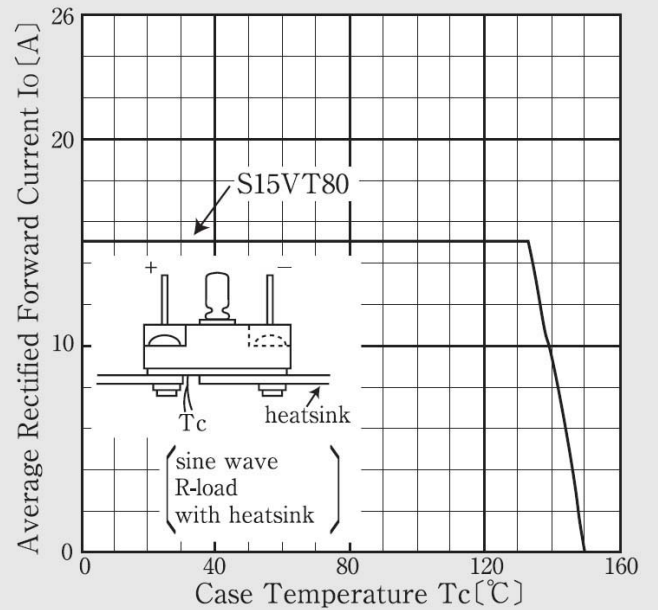
### Forward Power Dissipation



### Peak Surge Forward Current Capability



### Derating Curve





## Notes

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