

S30VTA80

Bridge Diodes

800V, 30A

Feature

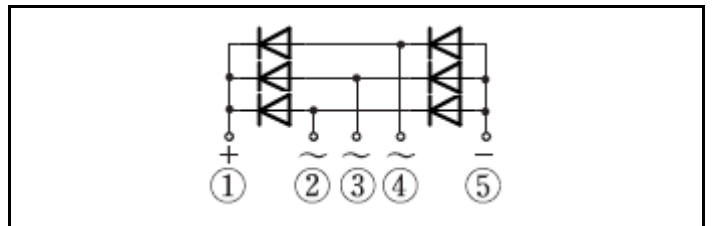
- Lead Terminal
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): SVTA



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : T_c=25°C)

| Item | Symbol | Conditions | Ratings | Unit |
|---------------------------------|--------------------|------------------------------------------------------------------------------------|------------|------------------|
| Storage temperature | T _{stg} | | -40 to 150 | °C |
| Junction temperature | T _j | | 150 | °C |
| Repetitive peak reverse voltage | V _{RRM} | | 800 | V |
| Average forward current | I _{F(AV)} | 50Hz sine wave, Resistance load, With heatsink, T _c =121°C | 30 | A |
| Surge forward current | I _{FSM} | 50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, T _j =25°C | 400 | A |
| Current squared time | I ² t | 1ms ≤ t < 10ms, T _j =25°C, per diode | 800 | A ² s |
| Dielectric strength | V _{dis} | Terminals to case, AC 1 minute | 2 | kV |
| Mounting torque | TOR | (Recommended torque : 0.6N·m) | 0.8 | N·m |

※ : See the original Specifications

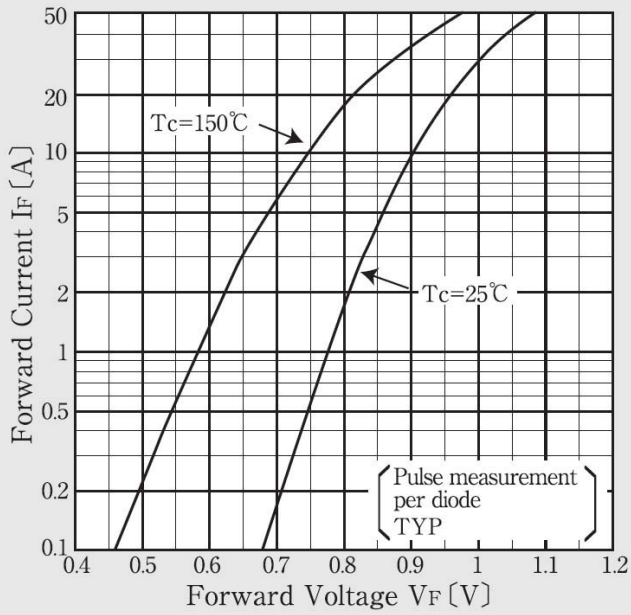
Electrical Characteristics (unless otherwise specified : Tc=25°C)

| Item | Symbol | Conditions | Ratings | | | Unit |
|--------------------|----------------------|----------------------------------------------------|---------|-----|------|------|
| | | | MIN | TYP | MAX | |
| Forward voltage | V _F | I _F =10A, Pulse measurement, per diode | | | 1.05 | V |
| Reverse current | I _R | V _R =800V, Pulse measurement, per diode | | | 10 | μA |
| Thermal resistance | R _{th(j-c)} | Junction to case | | | 0.5 | °C/W |

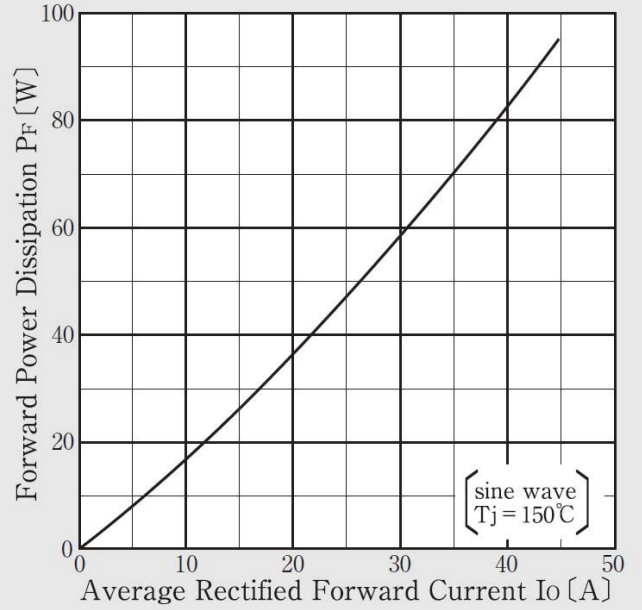
* : See the original Specifications

CHARACTERISTIC DIAGRAMS

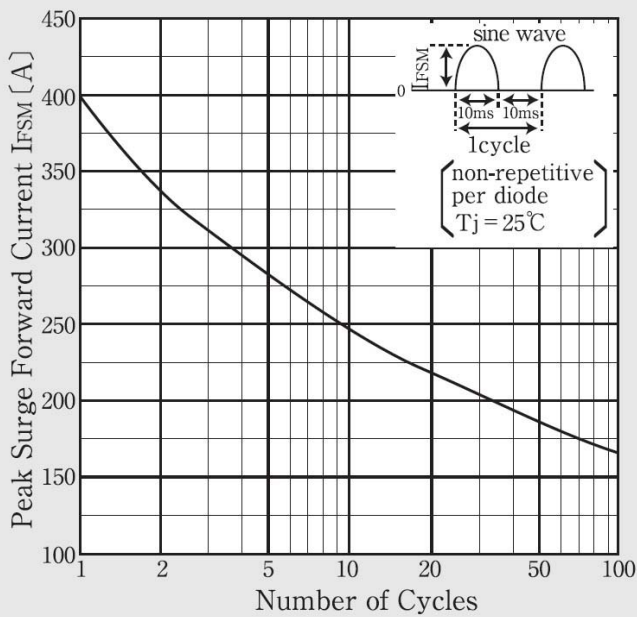
Forward Voltage



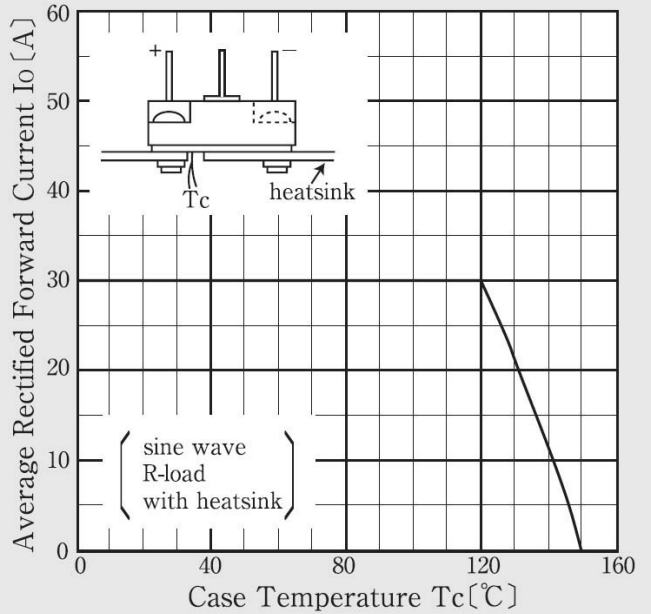
Forward Power Dissipation



Peak Surge Forward Current Capability



Derating Curve



Notes

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