ShinDengen

# S50VB60

## Bridge Diodes
## 600V, 50A

### Feature

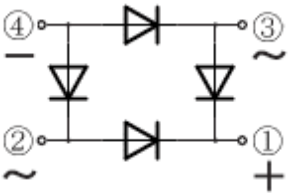
- Faston Terminal
- Pb free terminal
- RoHS:Yes

### OUTLINE

**Package (House Name):** S50VB



### Equivalent circuit




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

| Item | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Storage temperrature | Tstg | | -40 to 150 | °C |
| Junction temperature | Tj | | -40 to 150 | °C |
| Repetitive peak reverse voltage | $V_{RRM}$ | | 600 | V |
| Average forward current | $I_F$(AV) | 50Hz sine wave, Resistance load, With heatsink, Tc=95°C | 50 | A |
| Surge forward current | $I_{FSM}$ | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C | 500 | A |
| Current squared time | $I^2t$ | 1ms≦tp＜10ms, Tj=25°C, per diode | 800 | $A^2s$ |
| Dielectric strength | Vdis | Terminals to case, AC 1 minute | 2 | kV |
| Mounting torque | TOR | (Recommended torque : 0.6N･m) | 0.8 | N･m |

※ ：See the original Specifications



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

| Item | Symbol | Conditions | Ratings | | | Unit |
|---|---|---|---|---|---|---|
| | | | MIN | TYP | MAX | |
| Forward voltage | $V_F$ | IF=25A, Pulse measurement, per diode | | | 1.05 | V |
| Reverse current | $I_R$ | VR=600V, Pulse measurement, per diode | | | 10 | μA |
| Thermal resistance | Rth(j-c) | Junction to case, With heatsink | | | 0.5 | °C/W |

※ :See the original Specifications



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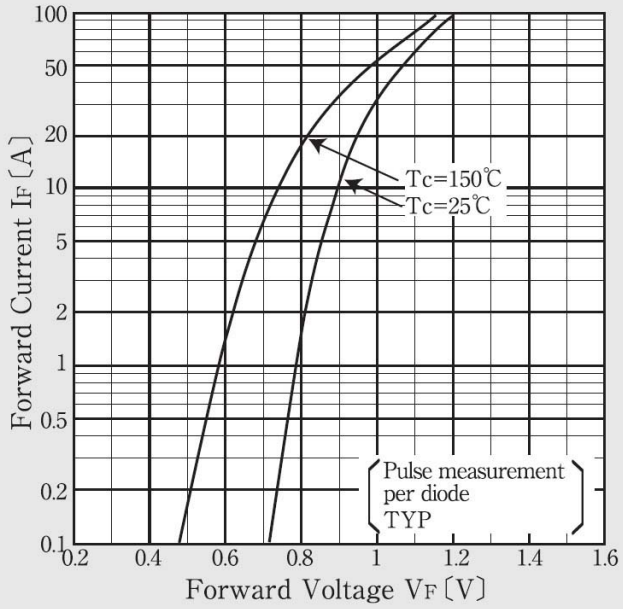
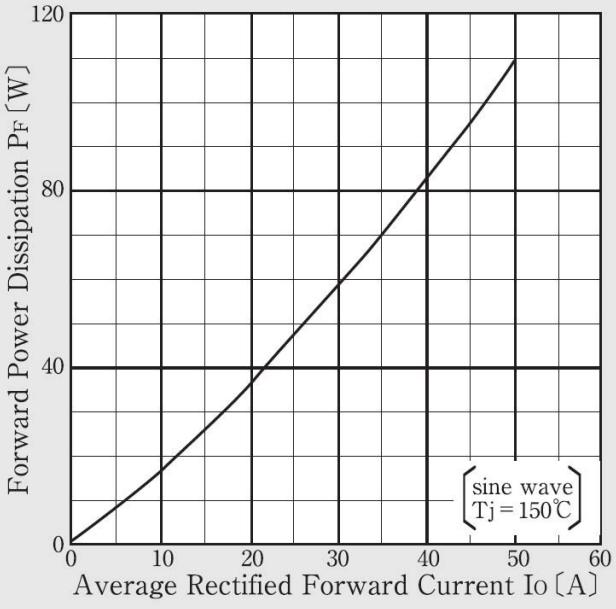
## CHARACTERISTIC DIAGRAMS

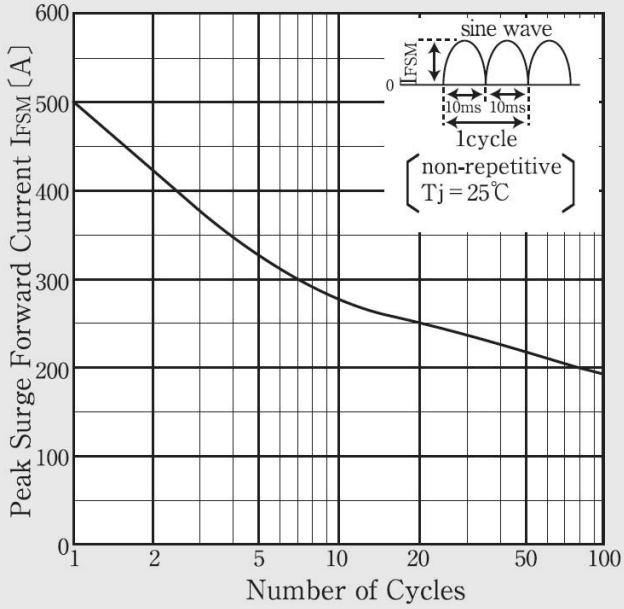
### Forward Voltage



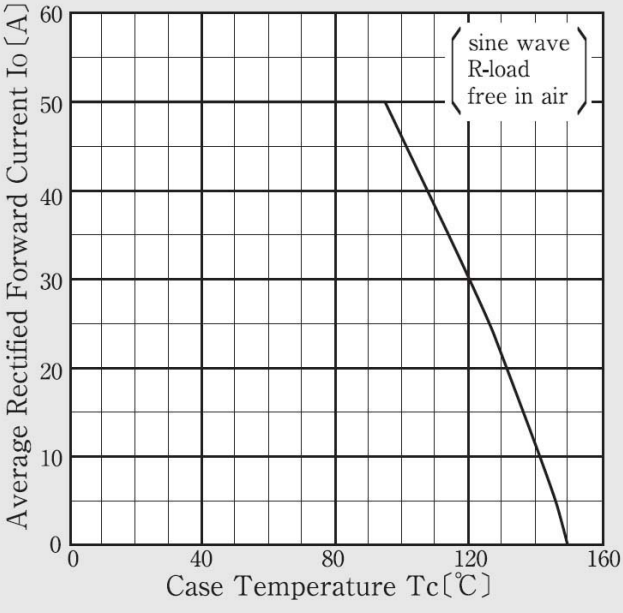

### Forward Power Dissipation




### Peak Surge Forward Current Capability




### Derating Curve



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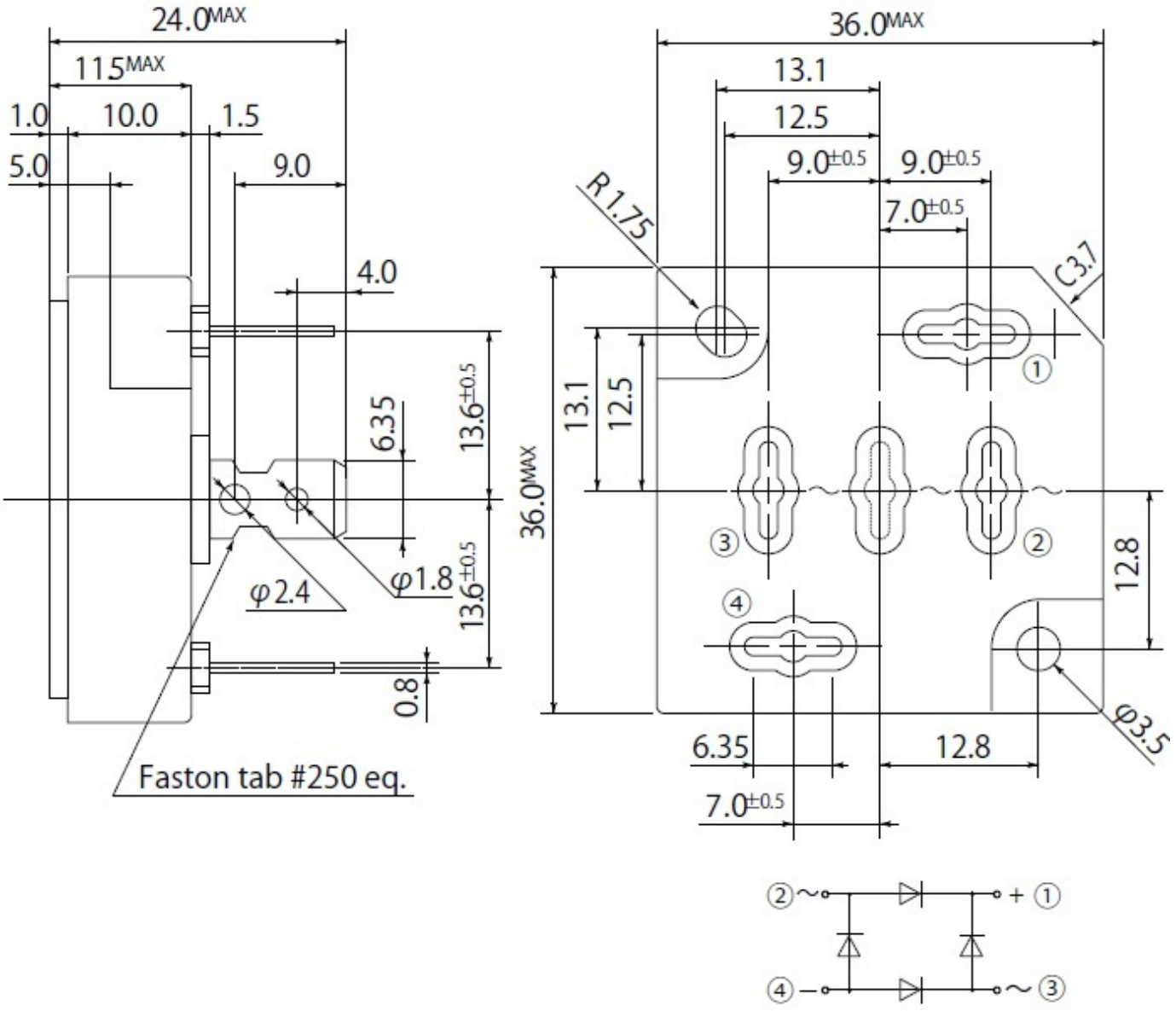
## Outline Dimensions

unit:mm

E9

| | |
|---|---|
| JEDEC Code | – |
| JEITA Code | – |
| House Name | S50VB |





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