ShinDengen

# S3V100D

## General Rectifying Diodes
## 800V, 3.0A

### Feature

- High Voltage
- Pb free terminal
- RoHS:Yes

### OUTLINE

**Package (House Name):** AX14



### Equivalent circuit




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

| Item | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Storage temperrature | $T_{stg}$ | | -55 to 150 | °C |
| Junction temperature | $T_j$ | | -55 to 150 | °C |
| Repetitive peak reverse voltage | $V_{RRM}$ | | 800 | V |
| Non-repetitive peak reverse voltage | $V_{RSM}$ | | 1000 | V |
| Average forward current | $I_{F(AV)}$ | 50Hz sine wave, Resistance load, On glass-epoxy substrate, Tl=122°C ※ | 4 | A |
| Average forward current | $I_{F(AV)}$ | 50Hz sine wave, Resistance load, On glass-epoxy substrate, Tl=130°C ※ | 3 | A |
| Surge forward current | $I_{FSM}$ | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C | 150 | A |
| Surge forward current | $I_{FSM1}$ | tp=1ms, sine wave, Non-repetitive, peak value, Tj=25°C | 310 | A |

※ ：See the original Specifications



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

| Item | Symbol | Conditions | Ratings | | | Unit |
|---|---|---|---|---|---|---|
| | | | MIN | TYP | MAX | |
| Forward voltage | $V_F$ | IF＝3A, Pulse measurement | | | 1.05 | V |
| Reverse current | $I_R$ | VR=1000V, Pulse measurement | | | 10 | μA |
| Thermal resistance | $R_{th(j-l)}$ | Junction to lead, On glass-epoxy substrate ※ | | | 6.5 | °C/W |

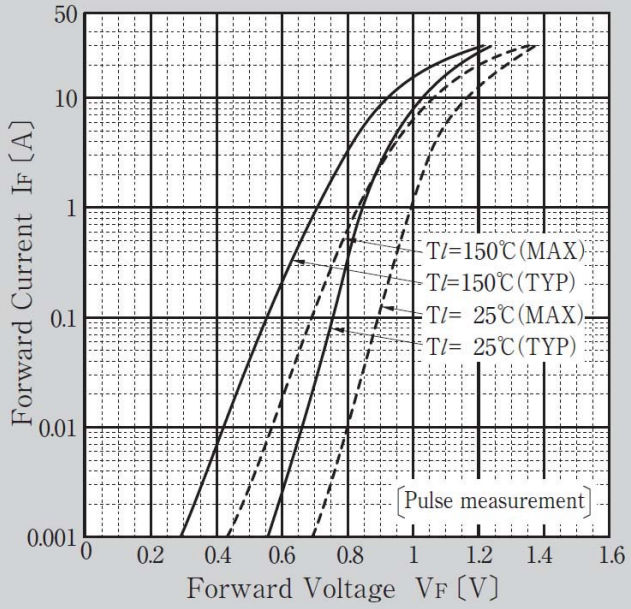
※ ：See the original Specifications



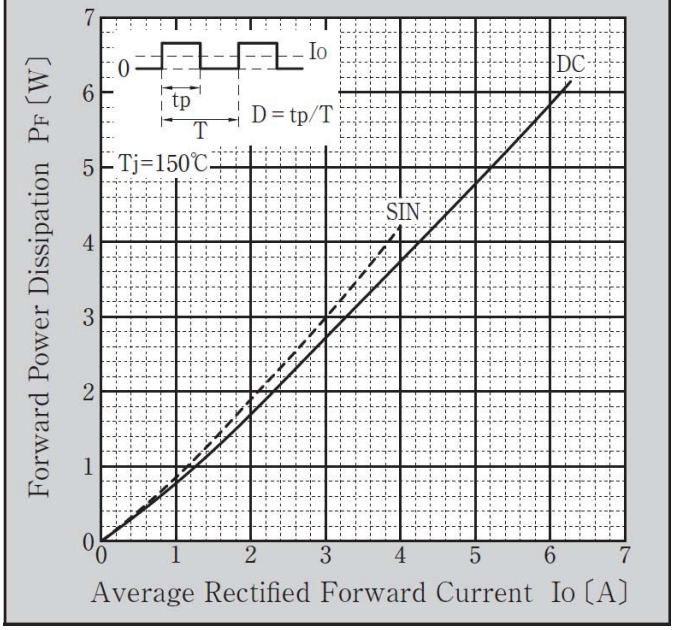
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## CHARACTERISTIC DIAGRAMS

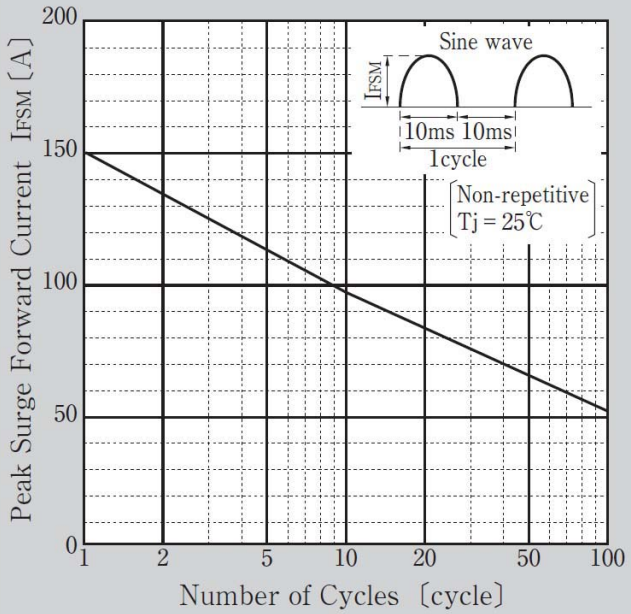
### Forward Voltage



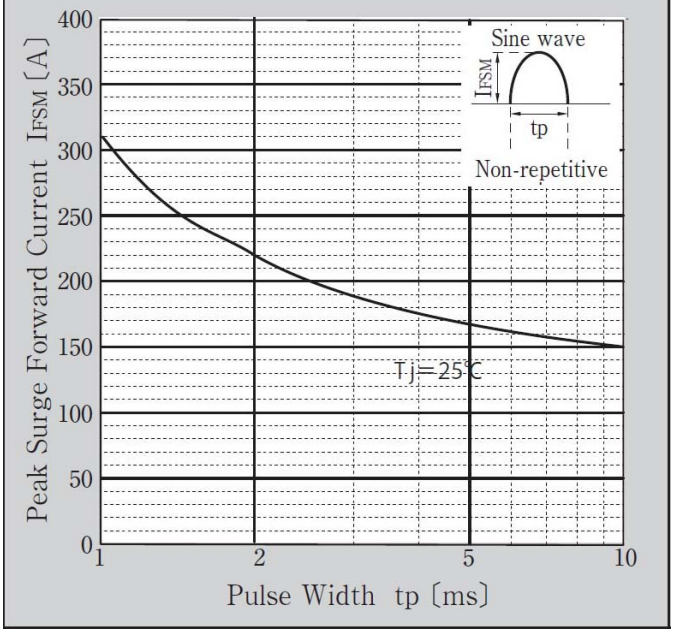

### Forward Power Dissipation




### Peak Surge Forward Current Capability

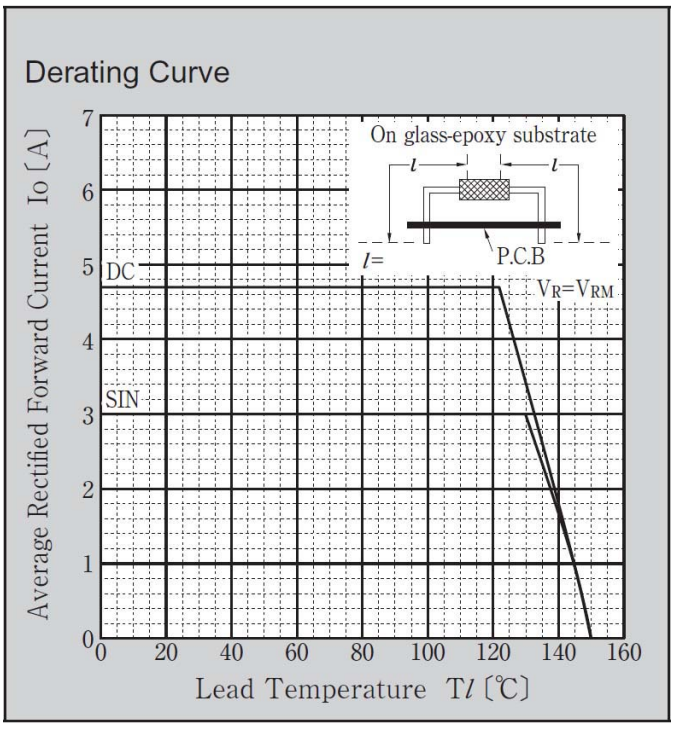


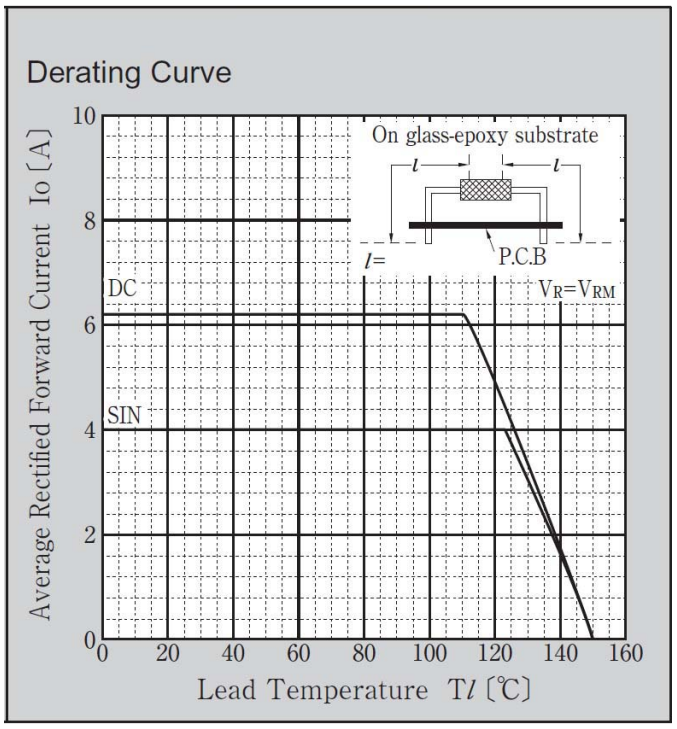

### Peak Surge Forward Current Capability






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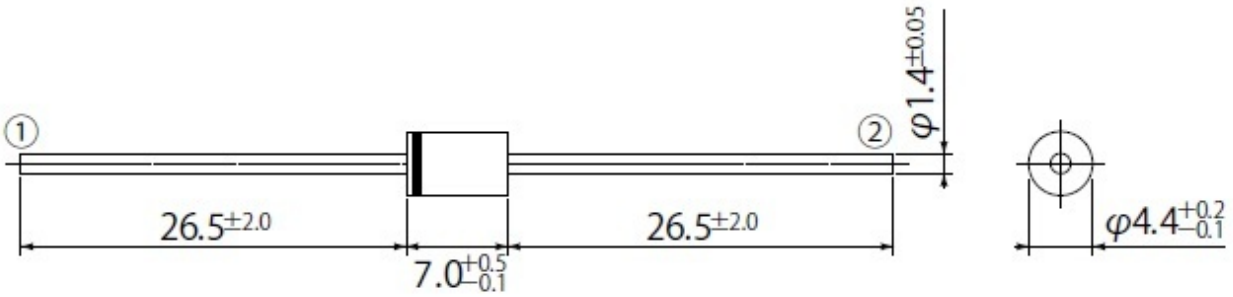

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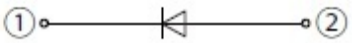
## Outline Dimensions

unit:mm

A7

| | |
|---|---|
| JEDEC Code | – |
| JEITA Code | – |
| House Name | AX14 |




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