ShinDengen

# D2F60

## General Rectifying Diodes
## 600V, 1.4A

### Feature

- Small SMD
- Available for automotive use
- Pb free terminal
- RoHS:Yes

### OUTLINE

**Package (House Name):** 2F

### Equivalent circuit


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

| Item | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Storage temperrature | Tstg | | -55 to 150 | ℃ |
| Junction temperature | Tj | | -55 to 150 | ℃ |
| Repetitive peak reverse voltage | $V_{RRM}$ | | 600 | V |
| Average forward current | $I_F$(AV) | 50Hz sine wave, Resistance load, On alumina substrate, Ta=25℃ ※ | 1.4 | A |
| Average forward current | $I_F$(AV) | 50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25℃ ※ | 1.1 | A |
| Surge forward current | $I_{FSM}$ | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25℃ | 60 | A |

※ ：See the original Specifications

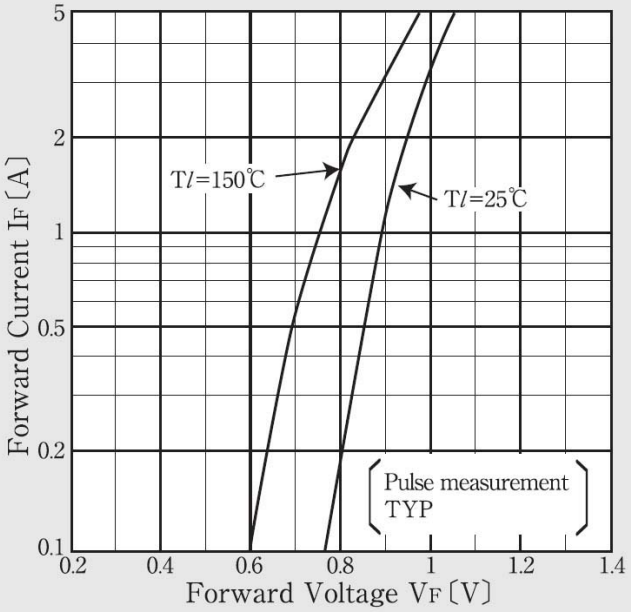
## Electrical Characteristics (unless otherwise specified : Tl=25℃)

| Item | Symbol | Conditions | Ratings | | | Unit |
|---|---|---|---|---|---|---|
| | | | MIN | TYP | MAX | |
| Forward voltage | $V_F$ | IF＝1.4A, Pulse measurement | | | 1.05 | V |
| Reverse current | $I_R$ | VR=600V, Pulse measurement | | | 10 | μA |
| Thermal resistance | Rth(j-l) | Junction to lead | | | 24 | ℃/W |
| Thermal resistance | Rth(j-a) | Junction to ambient, On alumina substrate ※ | | | 90 | ℃/W |
| Thermal resistance | Rth(j-a) | Junction to ambient, On glass-epoxy substrate ※ | | | 120 | ℃/W |

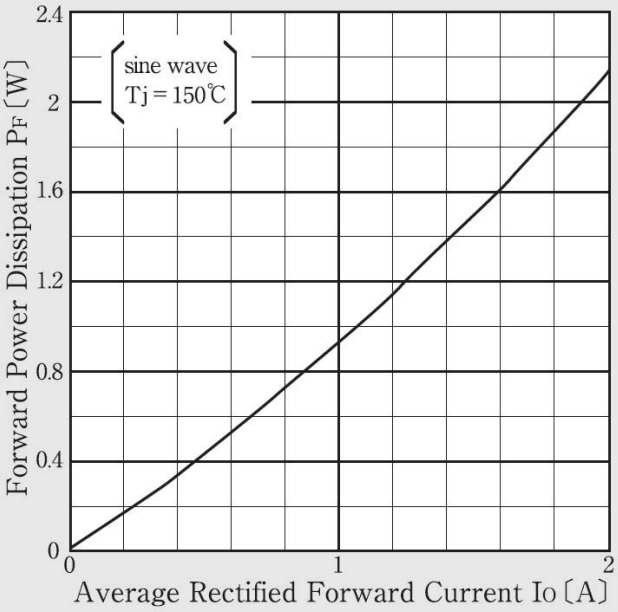
※ ：See the original Specifications

## CHARACTERISTIC DIAGRAMS

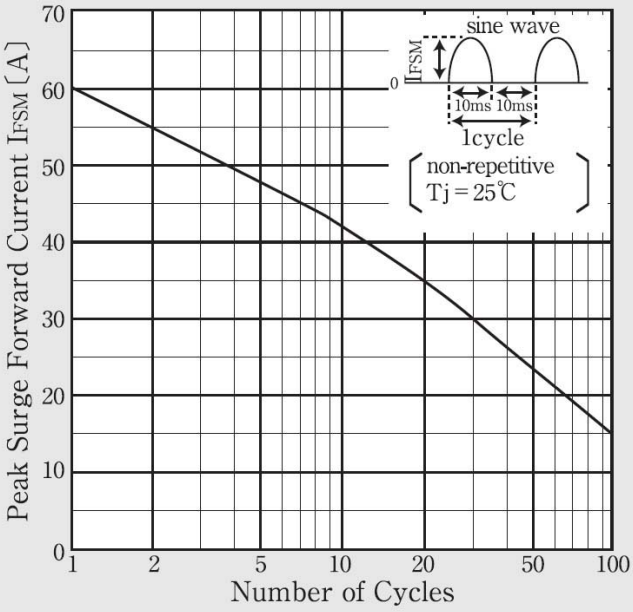
### Forward Voltage



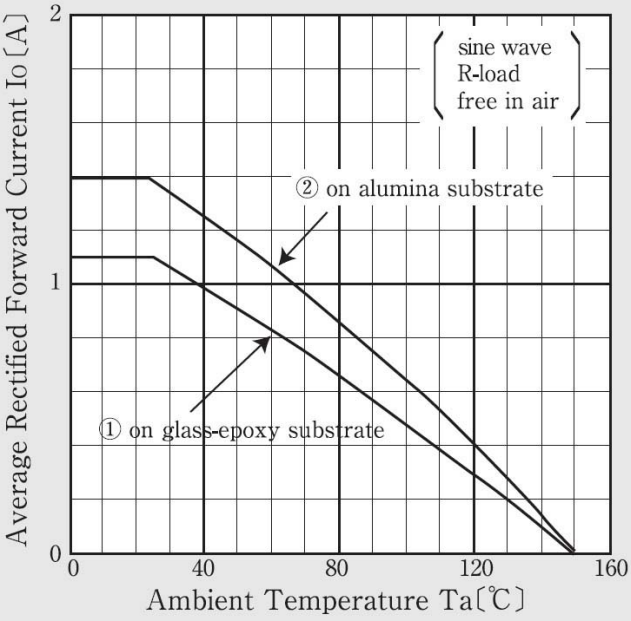

### Forward Power Dissipation




### Peak Surge Forward Current Capability




### Derating Curve



| | ① | ② |
|---|---|---|
| soldering land | 2mm□ | 2mm□ |
| conductor layer | 35μm | 20μm |
| substrate thickness | —— | 0.64 t |

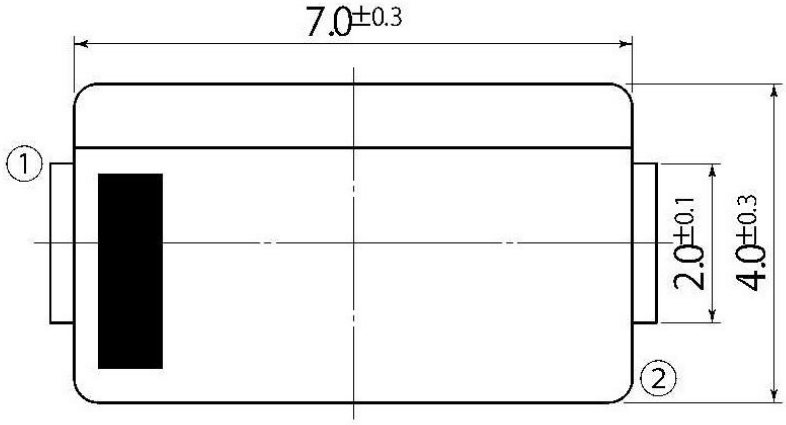
## Outline Dimensions

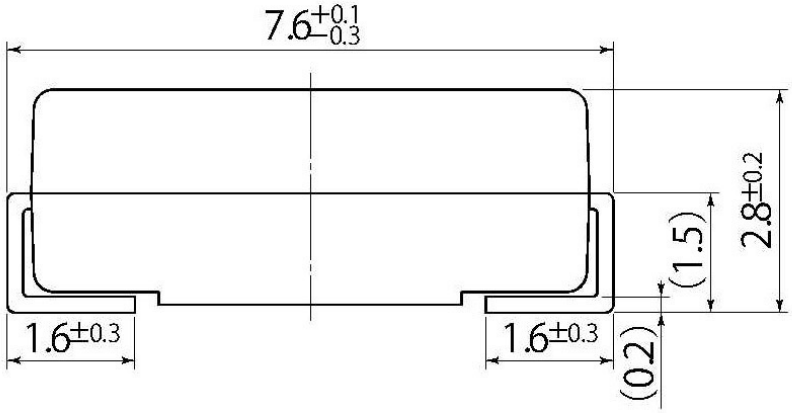
unit:mm

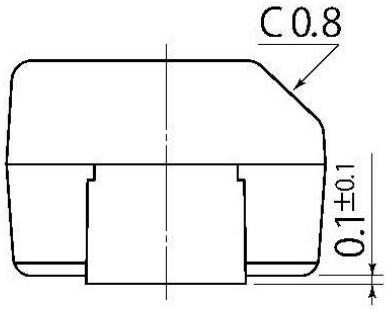
scale: 10/1

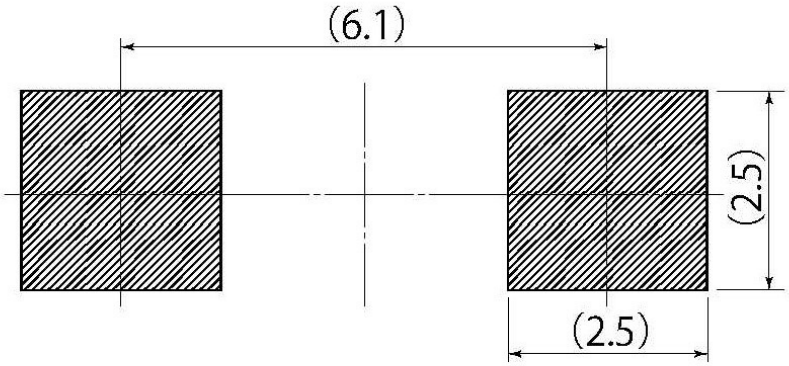
B9

| | |
|---|---|
| JEDEC Code | – |
| JEITA Code | – |
| House Name | 2F |




Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condi tion.

## Notes

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