

D2FL20U

Fast Recovery Diodes

200V, 1.5A

Feature

- Small SMD
- High Recovery Speed
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 2F



Equivalent circuit



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

| Item                            | Symbol             | Conditions                                                         | Ratings    | Unit |
|---------------------------------|--------------------|--------------------------------------------------------------------|------------|------|
| Storage temperrature            | Tstg               |                                                                    | -55 to 150 | °C   |
| Junction temperature            | Tj                 |                                                                    | 150        | °C   |
| Repetitive peak reverse voltage | V <sub>RRM</sub>   |                                                                    | 200        | V    |
| Average forward current         | I <sub>F(AV)</sub> | 50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C     | 1.5        | A    |
| Average forward current         | I <sub>F(AV)</sub> | 50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C | 1.2        | A    |
| Surge forward current           | I <sub>FSM</sub>   | 50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C        | 50         | A    |

※ : See the original Specifications

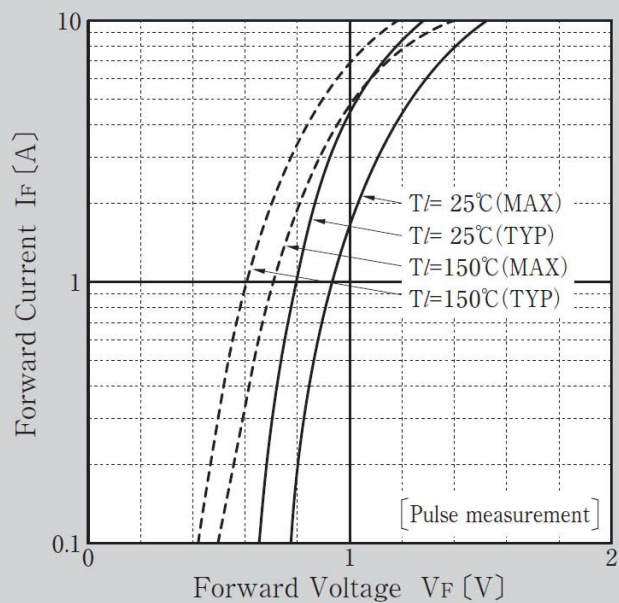
**Electrical Characteristics** (unless otherwise specified : Tl=25°C)

| Item                  | Symbol   | Conditions                                    | Ratings |     |      | Unit |
|-----------------------|----------|-----------------------------------------------|---------|-----|------|------|
|                       |          |                                               | MIN     | TYP | MAX  |      |
| Forward voltage       | $V_F$    | IF=1.5A, Pulse measurement                    |         |     | 0.98 | V    |
| Reverse current       | $I_R$    | VR=200V, Pulse measurement                    |         |     | 10   | μA   |
| Reverse recovery time | trr      | IF=0.5A, IR=1A                                |         |     | 35   | ns   |
| Thermal resistance    | Rth(j-l) | Junction to lead                              |         |     | 24   | °C/W |
| Thermal resistance    | Rth(j-a) | Junction to ambient, On alumina substrate     |         |     | 90   | °C/W |
| Thermal resistance    | Rth(j-a) | Junction to ambient, On glass-epoxy substrate |         |     | 120  | °C/W |

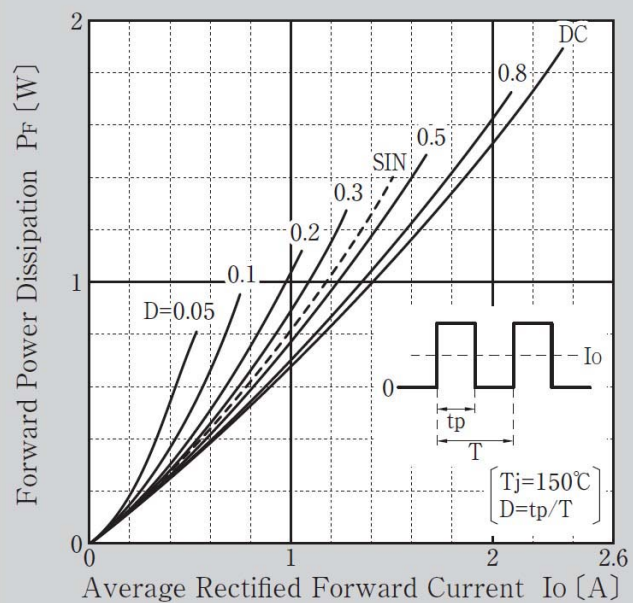
※ :See the original Specifications

## CHARACTERISTIC DIAGRAMS

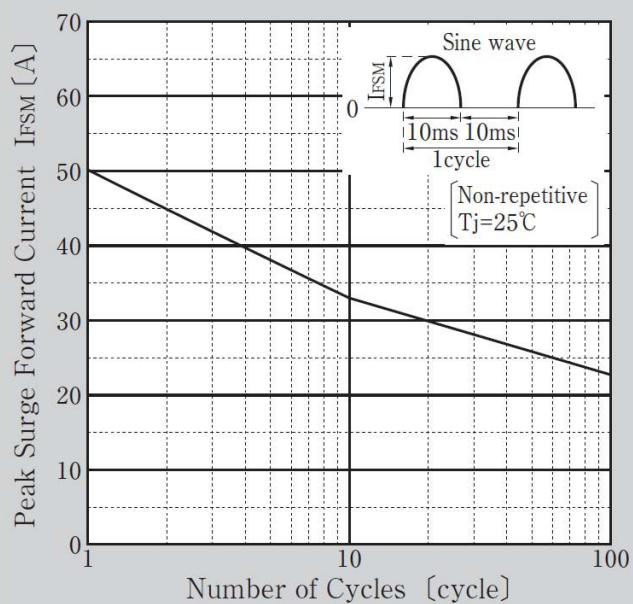
### Forward Voltage



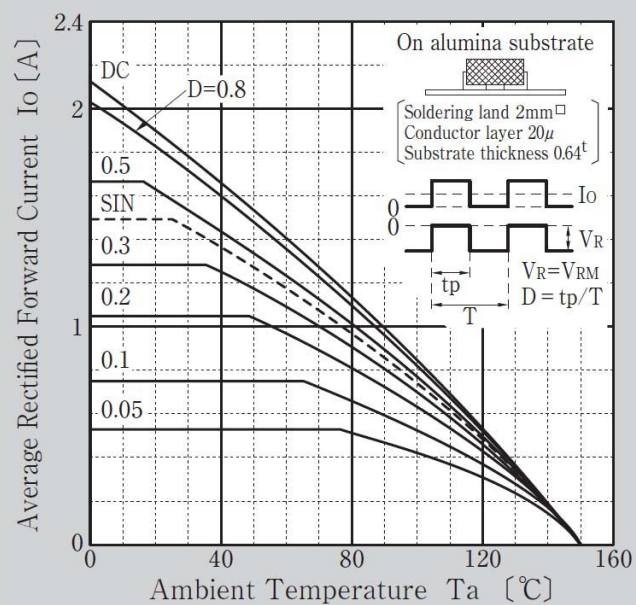
### Forward Power Dissipation



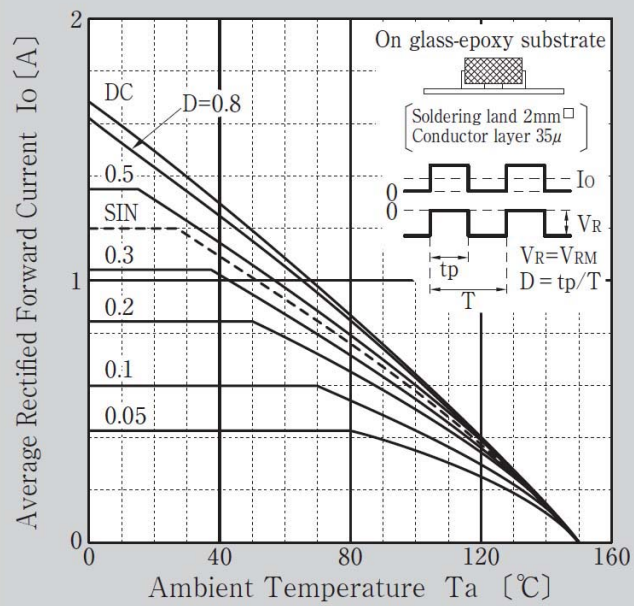
### Peak Surge Forward Current Capability



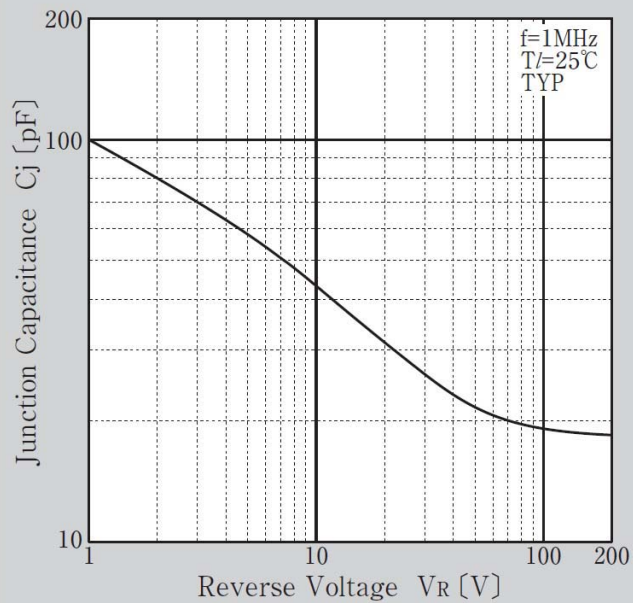
### Derating Curve



## Derating Curve

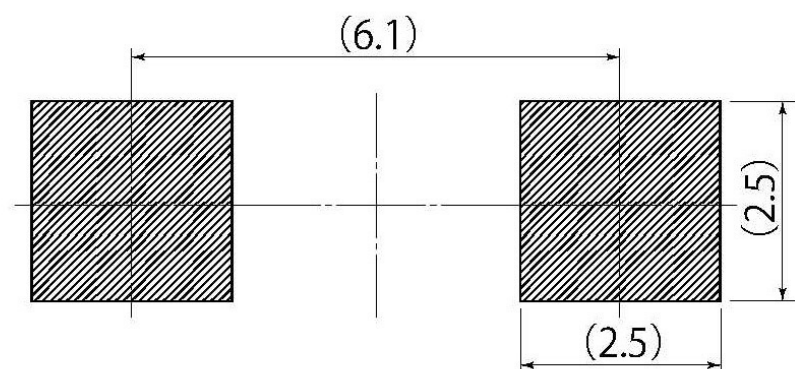
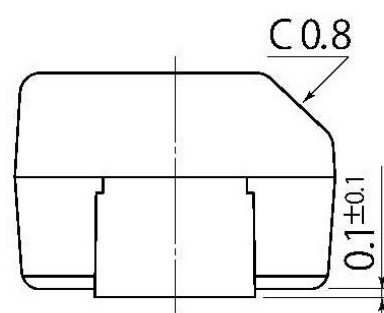
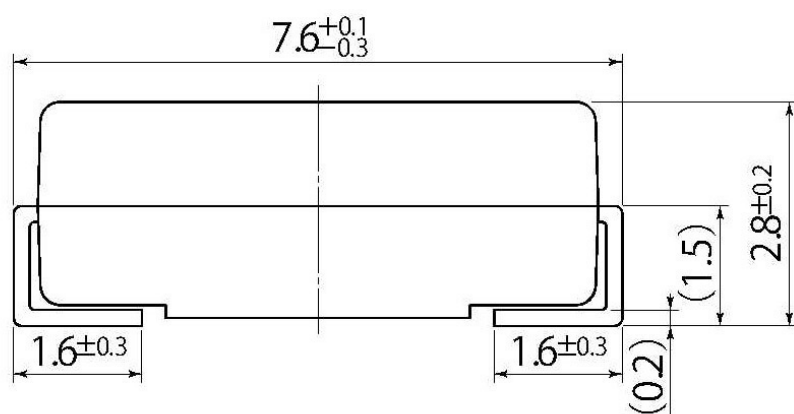
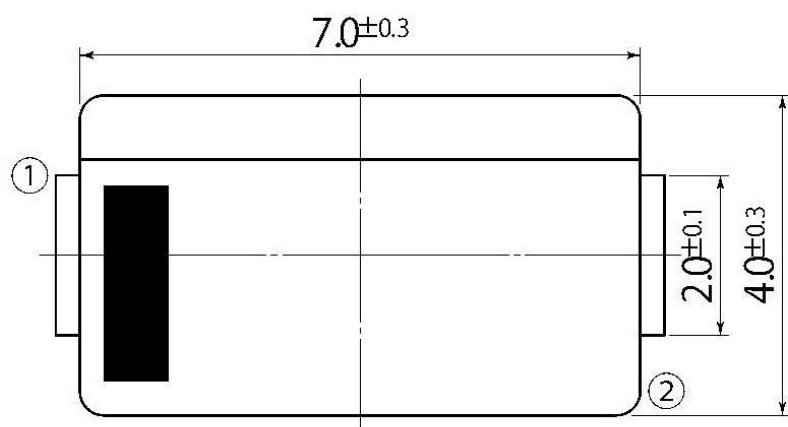


## Junction Capacitance



B9

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



Referential Soldering Pad

- Optimize soldering pad to the board design and soldering condition.

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