

D1FL20U

Fast Recovery Diodes 200V, 1.1A

Feature

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

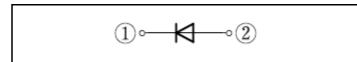
OUTLINE

Package (House Name): 1F

Package (JEDEC Code): DO-214AC



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 | | -55 to 150 | °C |
| Repetitive peak reverse voltage | V_{RRM} | | 200 | V |
| Average forward current | I _F (AV) | 50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C * | 1.1 | Α |
| Average forward current | I _F (AV) | 50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C * | 0.84 | А |
| Surge forward current | I _{FSM} | 50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C | 20 | А |

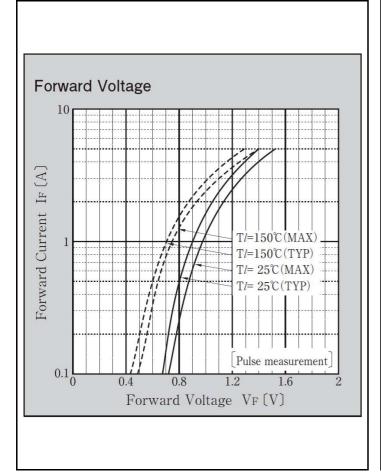
^{* :}See the original Specifications

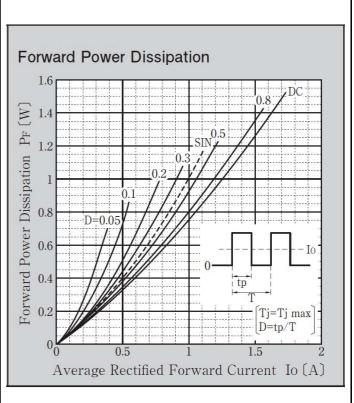
Electrical Characteristics (unless otherwise specified : TI=25°C)

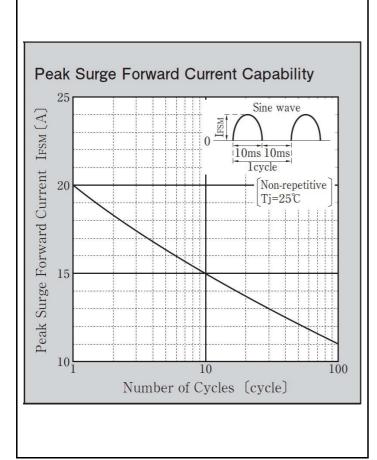
| Item | Symbol | Conditions | Ratings | | | Unit |
|-----------------------|----------------|---|---------|-----|------|------|
| | | | MIN | TYP | MAX | Ome |
| Forward voltage | V _F | IF=1.1A, Pulse measurement | | | 0.98 | V |
| Reverse current | I _R | VR=200V, Pulse measurement | | | 10 | μΑ |
| Reverse recovery time | trr | IF=0.5A, IR=1.0A, 0.1IR | | | 35 | ns |
| Thermal resistance | Rth(j-l) | Junction to lead | | | 23 | °C/W |
| Thermal resistance | Rth(j-a) | Junction to ambient, On alumina substrate * | | | 108 | °C/W |
| Thermal resistance | Rth(j-a) | Junction to ambient, On glass-epoxy substrate * | | | 157 | °C/W |

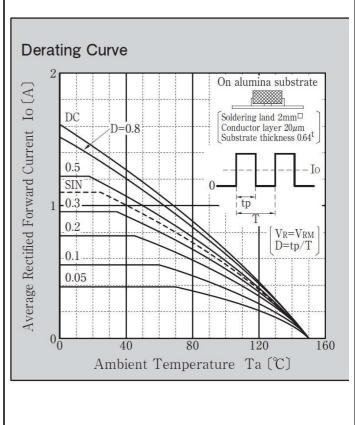
^{*} :See the original Specifications

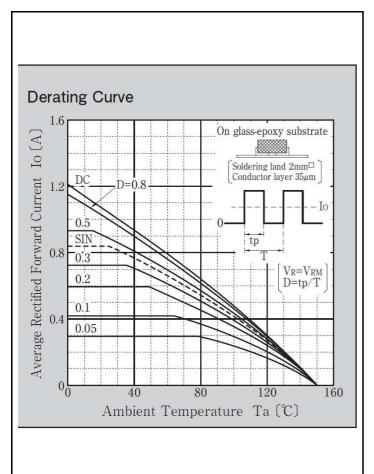
CHARACTERISTIC DIAGRAMS

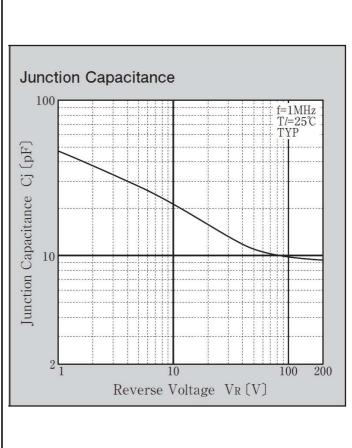










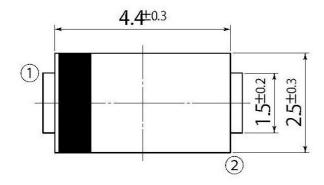


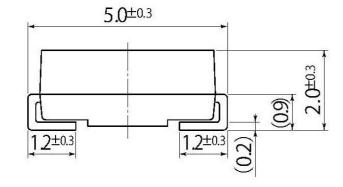
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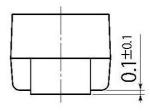
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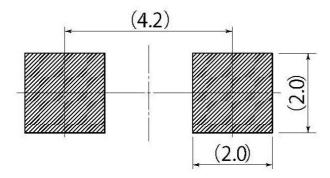
B3

| JEDEC Code | DO-214AC | | |
|------------|----------|--|--|
| JEITA Code | - | | |
| House Name | 1F | | |









Referential Soldering Pad

[•] Optimize soldering pad to the board design and soldering condition.

Notes

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(Special applications)

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