Fast recovery diodes RF1001T2D

Applications

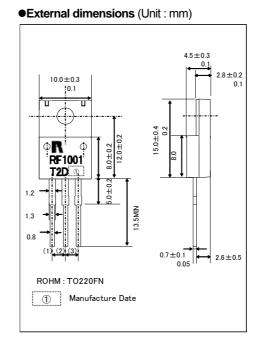
General rectification

● Features

- 1) Cathode common type. (TO-220)
- 2) Ultra Low VF
- 3) Very fast recovery
- 4) Low switching loss

Construction

Silicon epitaxial planar





● Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|--|------------------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 200 | V |
| Reverse voltage (DC) | V_R | 200 | V |
| Average rectified forward current (*1) | lo | 10 | Α |
| Forward current surge peak (60Hz-1cyc) | I _{FSM} | 80 | Α |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | Tstg | -55 to +150 | °C |

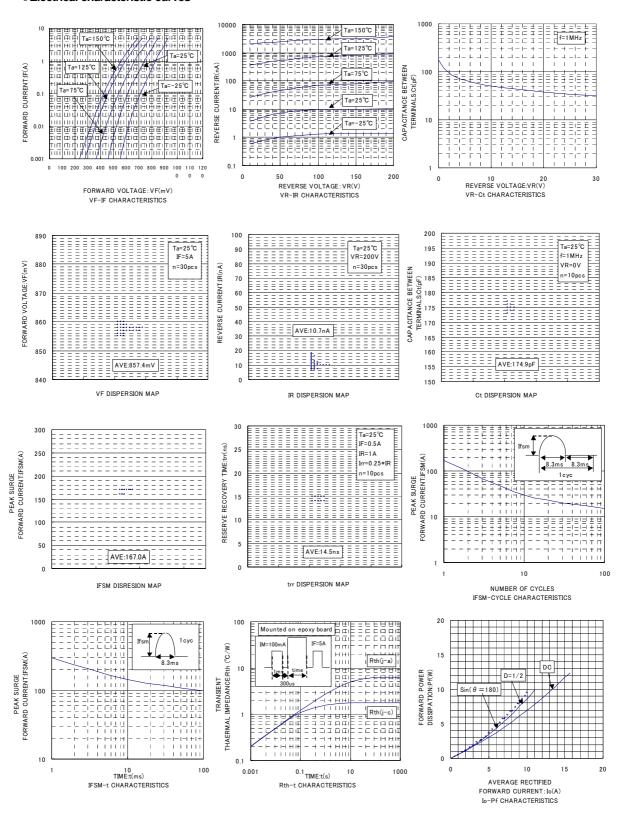
^(*1) Per chip : lo/2

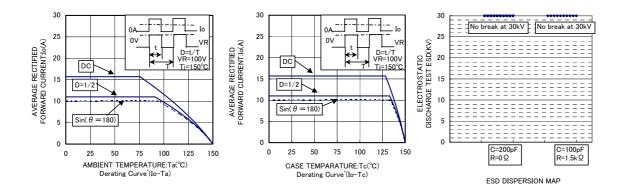
●Electrical characteristic (Ta=25°C)

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions |
|-----------------------|----------------|------|------|------|------|---|
| Forward voltage | V_{F} | - | 0.87 | 0.93 | V | I _F =5A |
| Reverse current | I _R | - | 0.01 | 10 | μA | V _R =200V |
| Reverse recovery time | trr | - | 15 | 30 | ns | I _F =0.5A,I _R =1A,Irr=0.25*I _R |
| Thermal impedance | θјс | - | - | 2.5 | °C/W | JUNCTION TO CASE |

Rev.B

•Electrical characteristic curves





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