Structure

Fast recovery diodes RF1601T2D

Applications

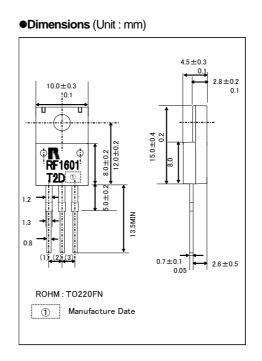
General rectification

Features

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

Construction

Silicon epitaxial planar



•Absoslute 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 | 16 | А | |
| Forward current surge peak (60Hz · 1cyc) | I _{FSM} | 80 | А | |
| Junction temperature | Tj | 150 | °C | |
| Storage temoerature | Tstg | -55 to +150 | °C | |

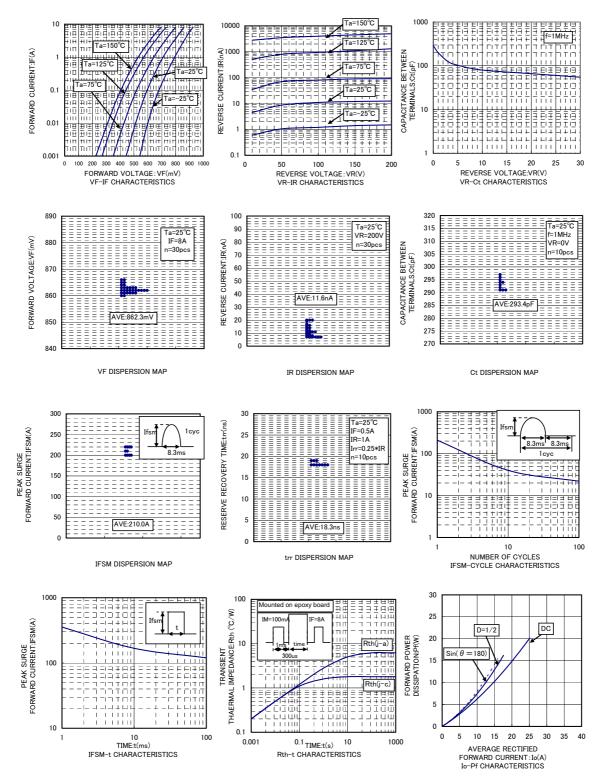
(*1)Business frequency, Rating of R-load, Tc=120°C. 1/2 lo per diode

•Electrical characteristic (Ta=25°C)

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions |
|-----------------------|----------------|------|------|------|------|---|
| Forward voltage | V _F | - | - | 0.93 | V | I _F =8A |
| Reverse current | I _R | - | - | 10 | μA | V _R =200V |
| Reverse recovery time | trr | - | - | 30 | ns | I _F =0.5A,I _R =1A,Irr=0.25*I _R |

Diodes

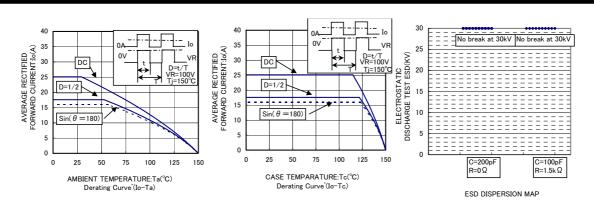
•Electrical characteristic curves



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RF1601T2D

Diodes





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Appendix1-Rev2.0

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