

Super Fast Recovery Diode

RFUH20TF6S

●Serise

Super Fast Recovery

Applications

General rectification

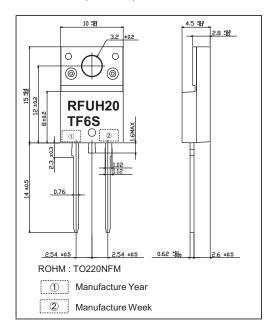
● Features

- 1)Ultra low switching loss
- 2)High current overload capacity

Construction

Silicon epitaxial planer type

●Dimensions(Unit:mm)



Structure

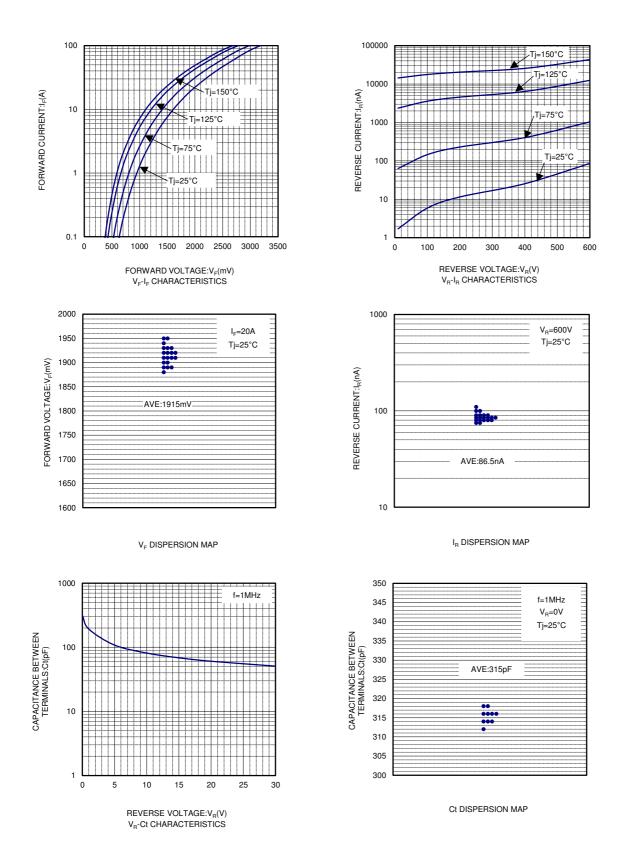


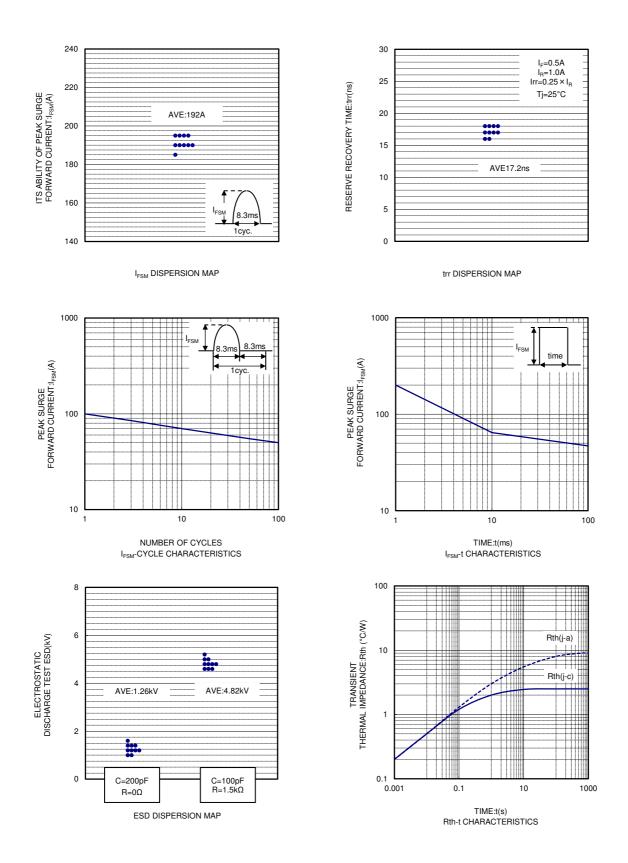
● Absolute Maximum Ratings (Tc=25°C)

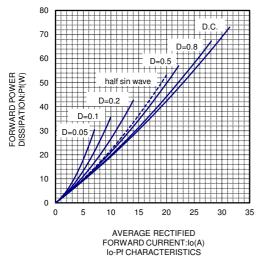
| Parameter | Symbol | Conditions | Limits | Unit | |
|----------------------------------|------------------|--|---------|-------------|----|
| Repetitive peak reverse voltage | V_{RM} | Duty≦0.5 | | 600 | V |
| Reverse voltage | V_R | Direct voltage | | 600 | V |
| Average rectified foward current | lo | 60Hz half sin wave , Resistive load | Tc=27°C | 20 | Α |
| Forward current surge peak | I _{FSM} | 60Hz half sin wave , Non-repetitive at Tj=25°C | | Tj=25°C 100 | |
| Junction temperature | Tj | | 150 | °C | |
| Storage temperature | Tstg | | | -55 to +150 | °C |

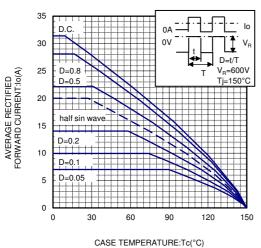
●Electrical Characteristics(Tj=25°C)

| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Unit |
|-----------------------|----------------|---|------|------|------|------|
| Forward voltage | V _F | I _F =20A | - | 1.8 | 2.8 | V |
| Reverse current | I _R | V _R =600V | _ | 0.1 | 10 | μA |
| Reverse recovery time | trr | I _F =0.5A,I _R =1A,Irr=0.25×I _R | _ | 18 | 35 | ns |
| Thermal resistance | Rth(j-c) | Junction to case | _ | _ | 2.5 | °C/W |

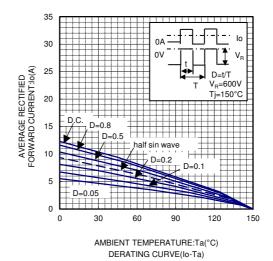








DERATING CURVE(Io-Tc)



Notes

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