

Schottky barrier diode

RB215T-60

●Applications

Switching power supply

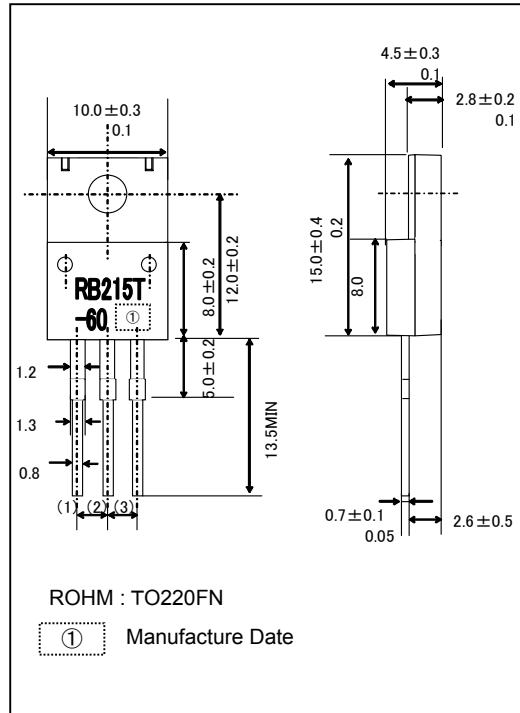
●Features

- 1)Cathode common type.(TO-220)
- 2)Low IR
- 3)High reliability

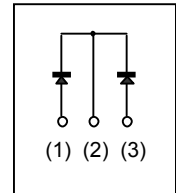
●Construcion

Silicon epitaxal planar

●Dimensions (Unit : mm)



●Structure



●Absolute maximum ratings (Ta=25°C)

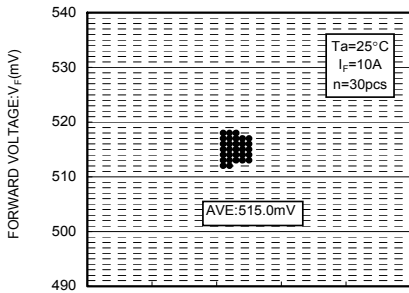
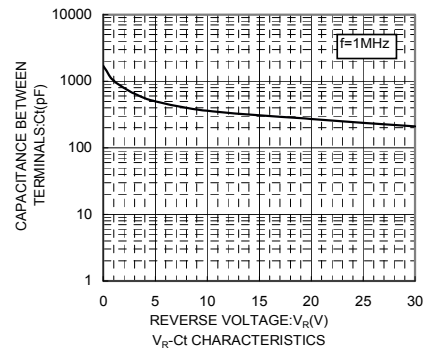
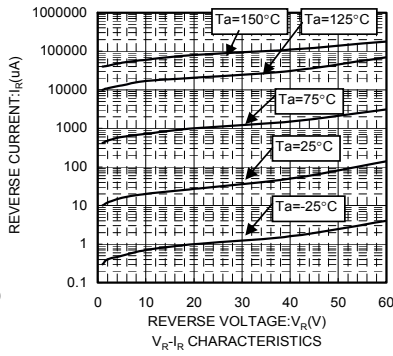
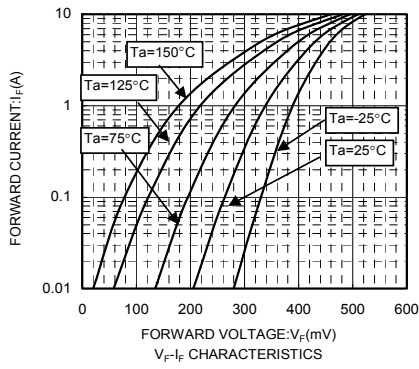
| Parameter | Symbol | Limits | Unit |
|---|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 60 | V |
| Reverse voltage (DC) | V_R | 60 | V |
| Average rectified forward current (*1) | I_o | 20 | A |
| Forward current surge peak (60Hz/1cyc) (*1) | I_{FSM} | 100 | A |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -40 to +150 | °C |

(*1)Business frequencies, Rating of R-load, 1/2 I_o per diode, Ta=116°C

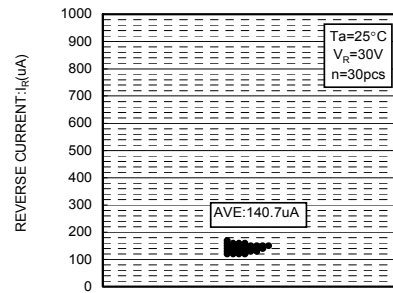
●Electrical characteristic(Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------|---------------|------|------|------|------|------------------|
| Forward voltage | V_F | - | - | 0.58 | V | $I_F=10A$ |
| Reverse current | I_R | - | - | 600 | μA | $V_R=60V$ |
| Thermal impedance | θ_{jc} | - | - | 1.75 | °C/W | junction to case |

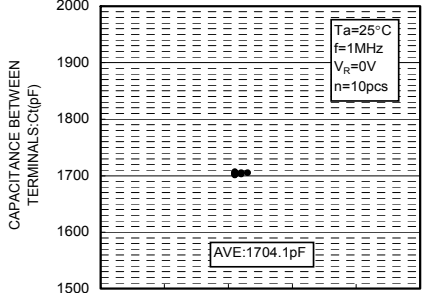
●Electrical characteristics curves



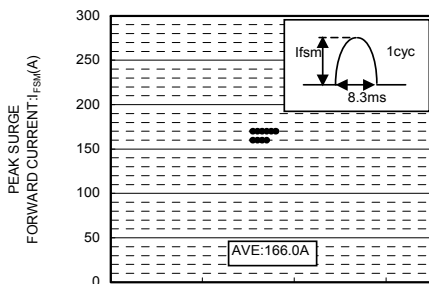
V_F DISPERSION MAP



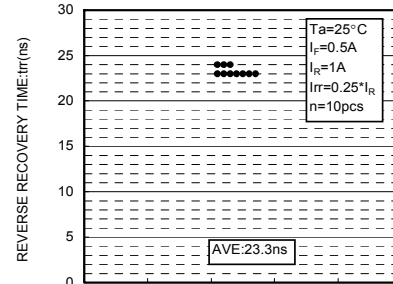
I_R DISPERSION MAP



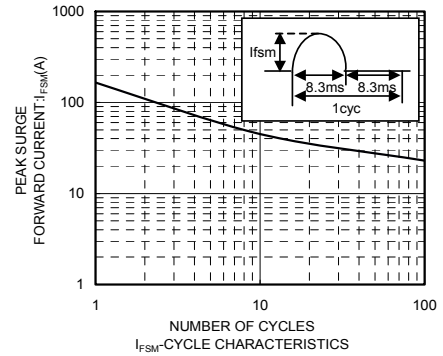
C DISPERSION MAP



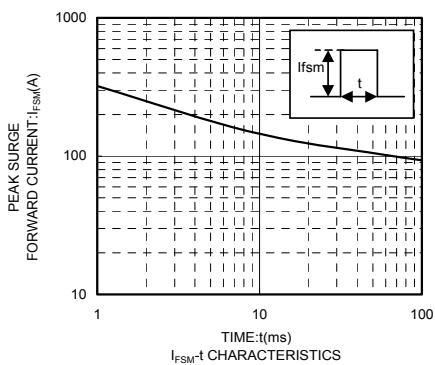
I_{FSM} DISPERSION MAP



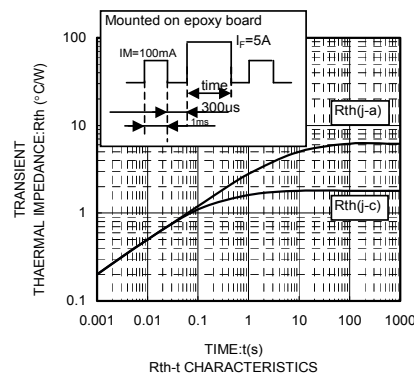
t_{rr} DISPERSION MAP



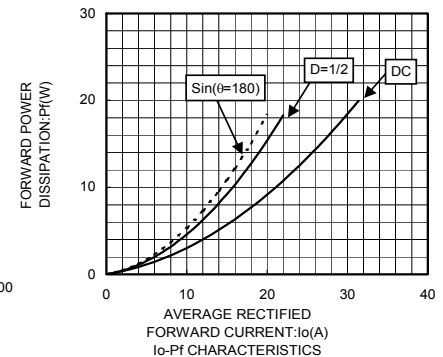
I_{FSM} -CYCLE CHARACTERISTICS



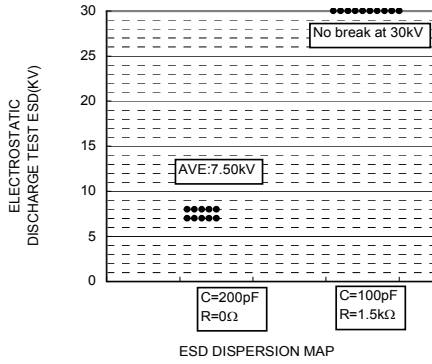
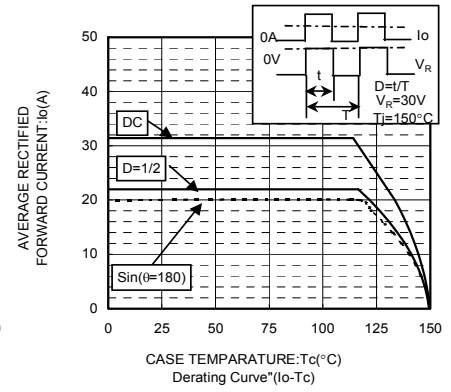
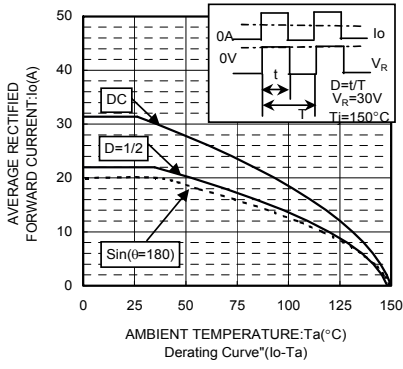
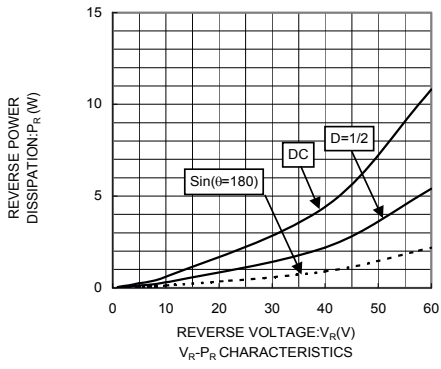
I_{FSM} - t CHARACTERISTICS



R_{th} - t CHARACTERISTICS



I_o - P CHARACTERISTICS



Notes

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