# Schottky barrier diode RB205T-90

# Applications

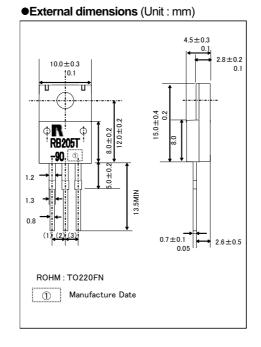
Switching power supply

## ● Features

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

## **●**Construction

Silicon epitaxial planar



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# ●Absolute maximum ratings (Ta=25°C)

| Parameter                                     | Symbol           | Limits      | Unit |
|---|------------------|-------------|------|
| Reverse voltage (repetitive peak)             | $V_{RM}$         | 90          | V    |
| Reverse voltage (DC)                          | $V_R$            | 90          | V    |
| Average rectified forward current (*1)        | lo               | 15          | Α    |
| Forward current surge peak (60Hz • 1cyc) (*1) | I <sub>FSM</sub> | 100         | Α    |
| Junction temperature                          | Tj               | 150         | °C   |
| Storage temperature                           | Tstg             | -40 to +150 | °C   |

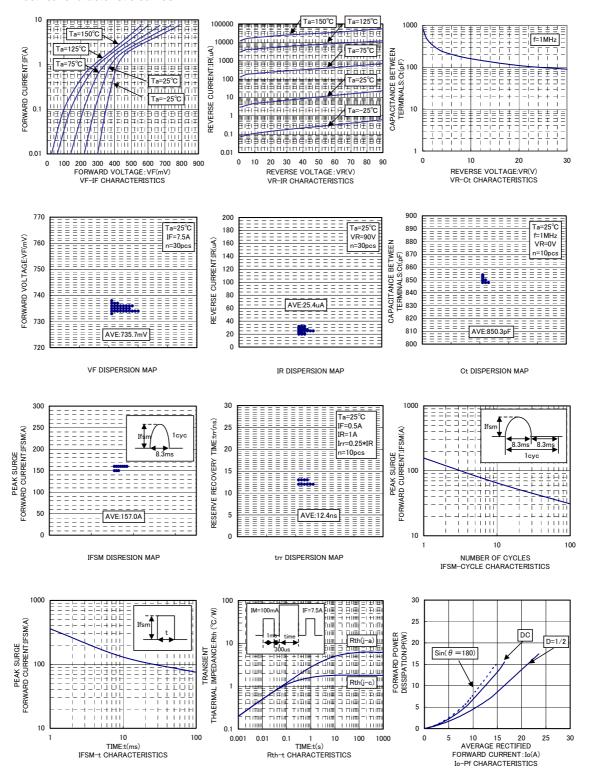
<sup>(\*1)</sup>Tc=100°Cmax. Per chip: lo/2

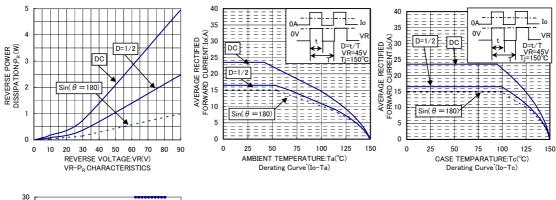
# ●Electrical characteristic (Ta=25°C)

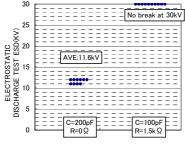
| Parameter         | Symbol         | Min. | Тур. | Max. | Unit | Conditions           |
|-------------------|----------------|------|------|------|------|----------------------|
| Forward voltage   | $V_{F}$        | -    | -    | 0.78 | V    | I <sub>F</sub> =7.5A |
| Reverse current   | I <sub>R</sub> | -    | -    | 300  | μΑ   | V <sub>R</sub> =90V  |
| Thermal impedance | θјс            | -    | -    | 2.0  | °C/W | junction to case     |

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#### ●Electrical characteristic curves







ESD DISPERSION MAP

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