



SANYO Semiconductors

## DATA SHEET

# SBR200-10JS

 — Schottky Barrier Diode (Twin Type · Cathode Common)  

## 100V, 20A Rectifier

### Applications

- High frequency rectification (switching regulators, converters, choppers).

### Features

- Low reverse current.
- Low switching noise.
- High reliability due to planar structure.
- Attachment workability is good by Mica-less package.

### Specifications

#### Absolute Maximum Ratings at Ta=25°C

| Parameter                                | Symbol | Conditions                             | Ratings     | Unit |
|--|--------|--|-------------|------|
| Repetitive Peak Reverse Voltage          | VRRM   |  | 100         | V    |
| Nonrepetitive Peak Reverse Surge Voltage | VRSM   |  | 105         | V    |
| Average Output Current                   | IO     | 50Hz resistive load, Sine wave Tc=74°C | 20          | A    |
| Surge Forward Current                    | IFSM   | 50Hz sine wave, 1 cycle                | 180         | A    |
| Junction Temperature                     | TJ     |  | -55 to +150 | °C   |
| Storage Temperature                      | Tstg   |  | -55 to +150 | °C   |

#### Electrical Characteristics at Ta=25°C

| Parameter                 | Symbol   | Conditions                  | Ratings |     |      | Unit   |
|---------------------------|----------|-----------------------------|---------|-----|------|--------|
|                           |          |                             | min     | typ | max  |        |
| Reverse Voltage           | VR       | IR=3mA, Tj=25°C*            | 100     |     |      | V      |
| Forward Voltage           | VF       | IF=10A, Tj=25°C*            |         |     | 0.88 | V      |
| Reverse Current           | IR       | VR=100V, Tj=25°C*           |         |     | 1    | mA     |
| Interterminal Capacitance | C        | VR=10V, Tj=25°C*            |         | 280 |      | pF     |
| Thermal Resistance        | Rth(j-c) | Junction-Case : Smoothed DC |         |     | 3.5  | °C / W |

Note) \* : Value per element

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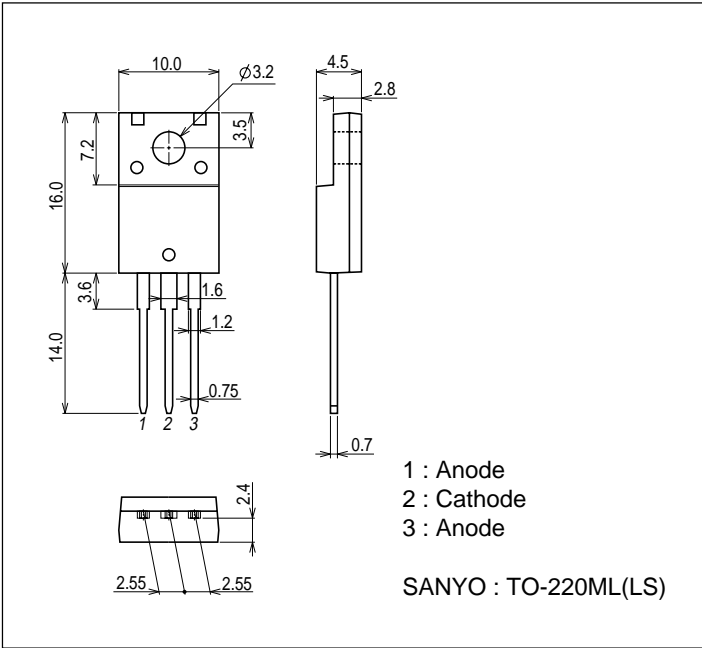
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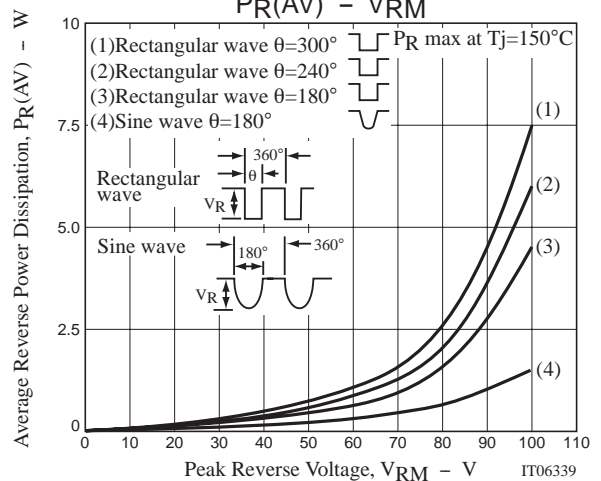
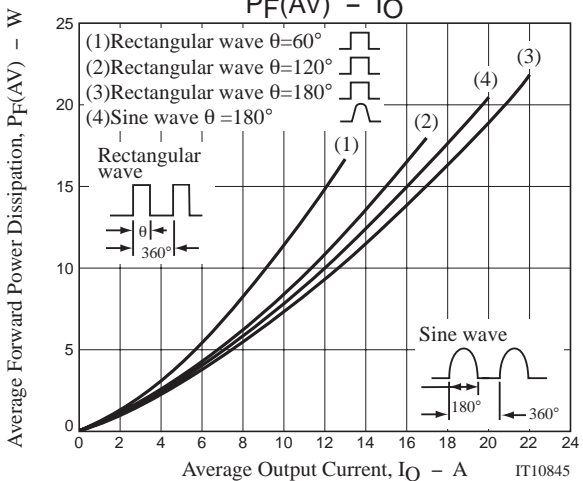
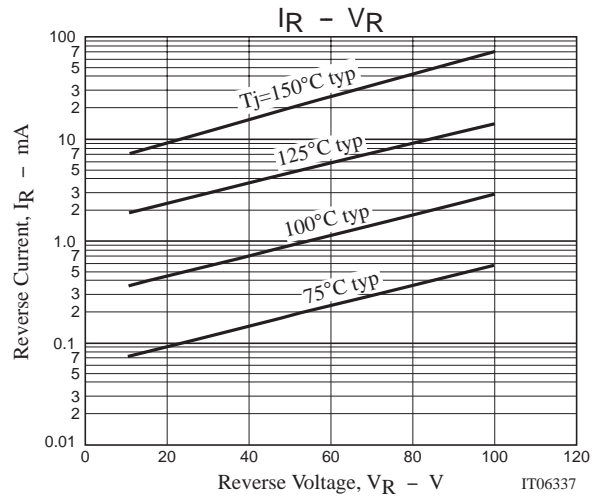
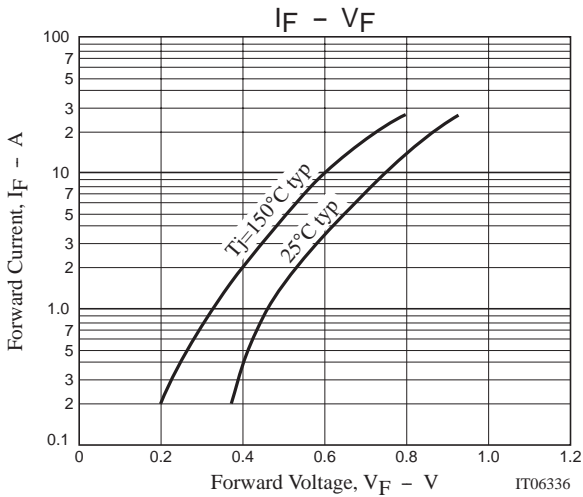
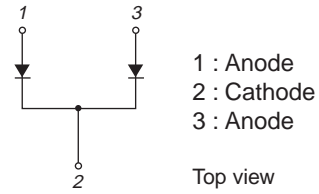
## Package Dimensions

unit : mm (typ)

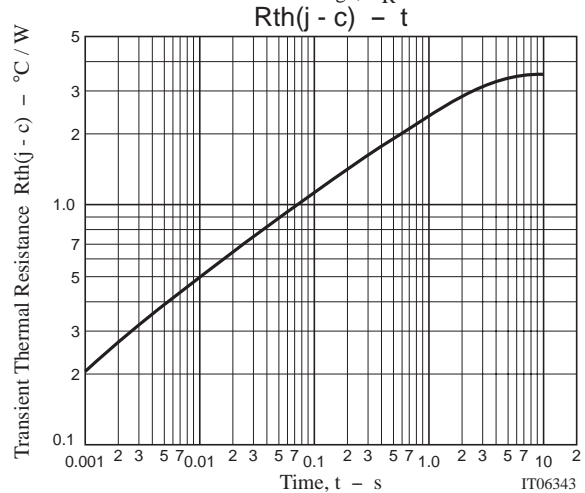
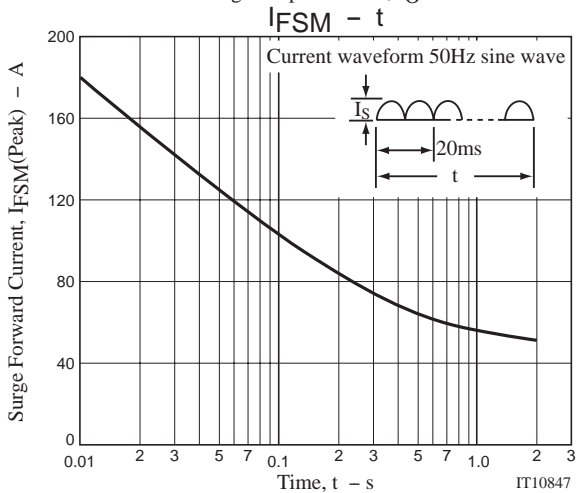
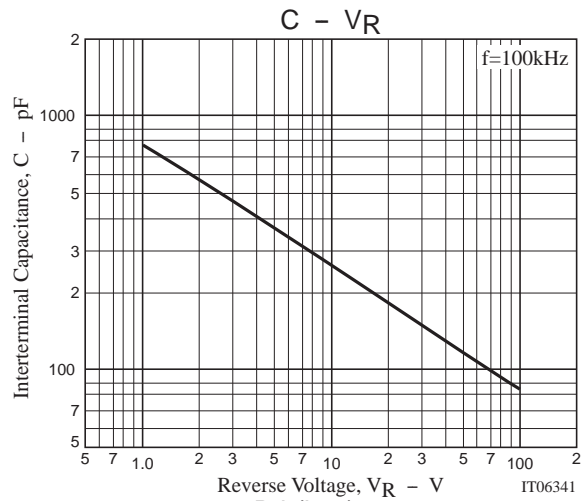
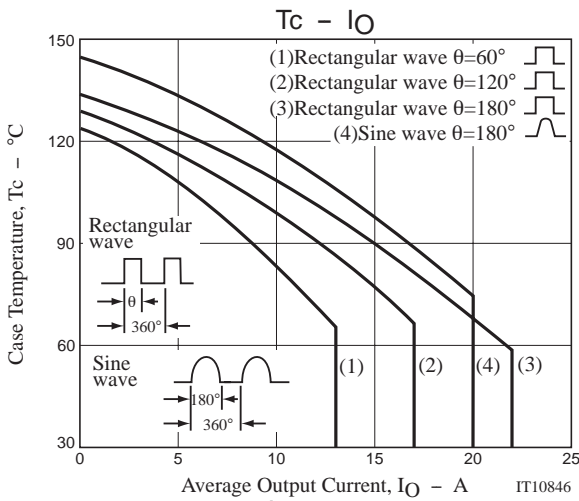
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## Electrical Connection



# SBR200-10JS



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