

# PG865C15R (150V, 20A)

## FUJI Diode

# Low IR Schottky Barrier Diode

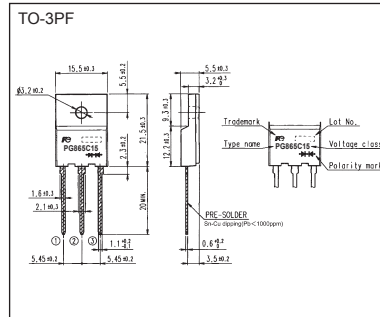
## ■ Features

- Low IR
- Low  $V_F$
- Center tap connection

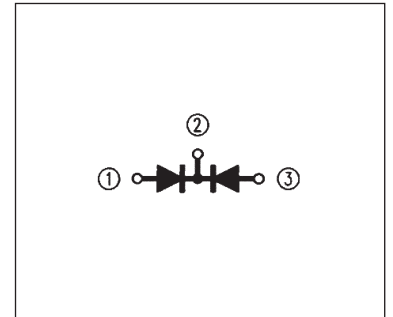
## ■ Applications

- High frequency operation
- DC-DC converters
- AC adapter

### ■ Outline Drawings [mm]



### ■ Connection diagram



### ■ Maximum Ratings and Characteristics

● Maximum ratings (at Ta=25°C Unless otherwise specified)

| Item                            | Symbols   | Conditions                                   | Ratings     | Units       |
|---------------------------------|-----------|----------------------------------------------|-------------|-------------|
| Repetitive peak reverse voltage | $V_{RRM}$ |                                              | 150         | V           |
| Isolating voltage               | Viso      | Terminals-to-case, AC.1min                   | 1500        | V           |
| Average output current          | $I_o$     | Square wave duty =1/2<br>$T_c = 80^{\circ}C$ | 20 *        | A           |
| Non-repetitive surge current ** | $I_{FSM}$ | Sine wave, 10ms 1shot                        | 150         | A           |
| Operating junction temperature  | $T_j$     |                                              | 150         | $^{\circ}C$ |
| Storage temperature             | $T_{stg}$ |                                              | -40 to +150 | $^{\circ}C$ |

\*Out put current of center tap full wave connection.

\*\*Rating per element

● Electrical characteristics (at Ta=25°C Unless otherwise specified)

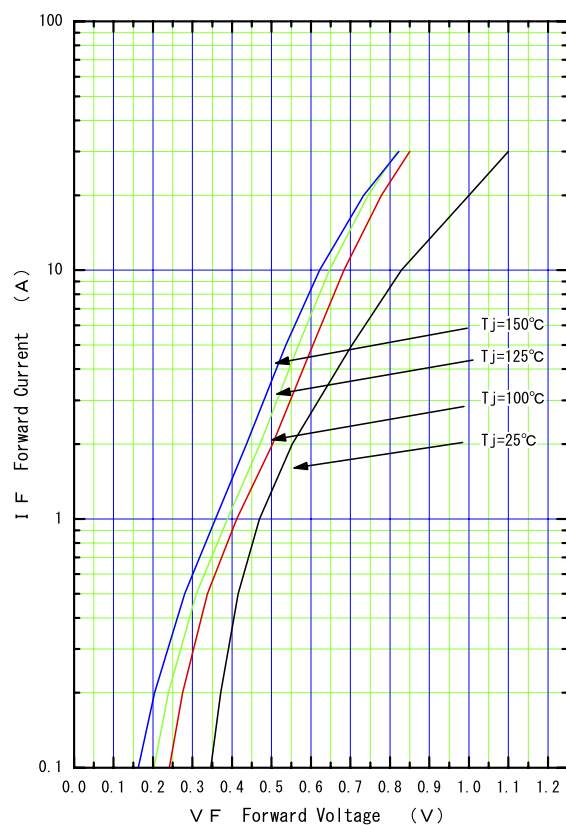
| Item               | Symbols       | Conditions          | Maximum | Units                |
|--------------------|---------------|---------------------|---------|----------------------|
| Forward voltage*** | $V_F$         | $I_F = 10\text{ A}$ | 0.9     | V                    |
| Reverse current*** | $I_R$         | $V_R = V_{RRM}$     | 150     | $\mu\text{A}$        |
| Thermal resistance | $R_{th(j-c)}$ | Junction to case    | 2.5     | $^{\circ}\text{C/W}$ |

\*\*\*Rating per element

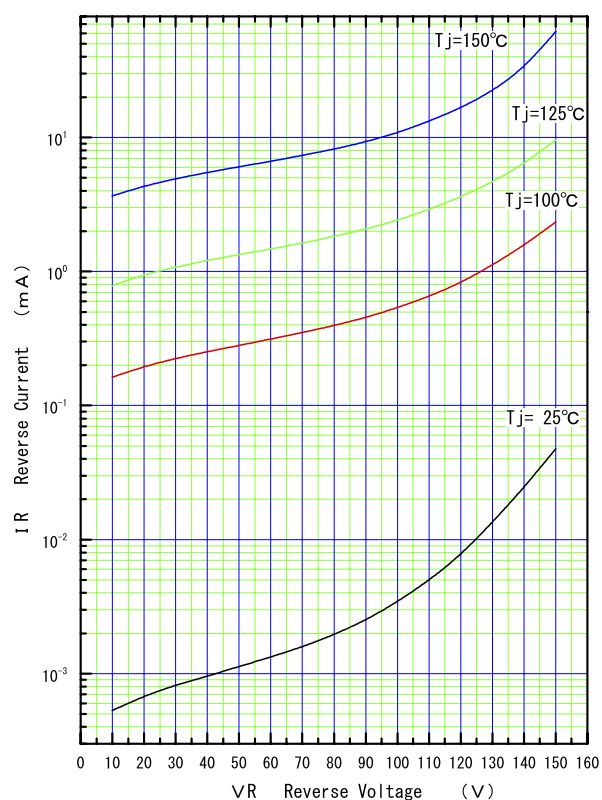
### ● Mechanical characteristics

| Item             | Conditions | Ratings | Units |
|------------------|------------|---------|-------|
| Approximate mass |            | 6.0     | g     |

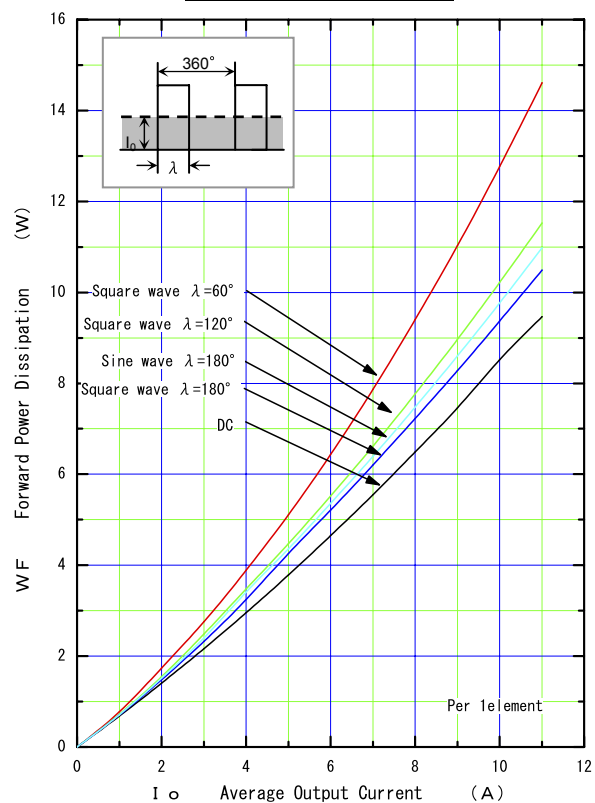
Forward Characteristic (typ.)



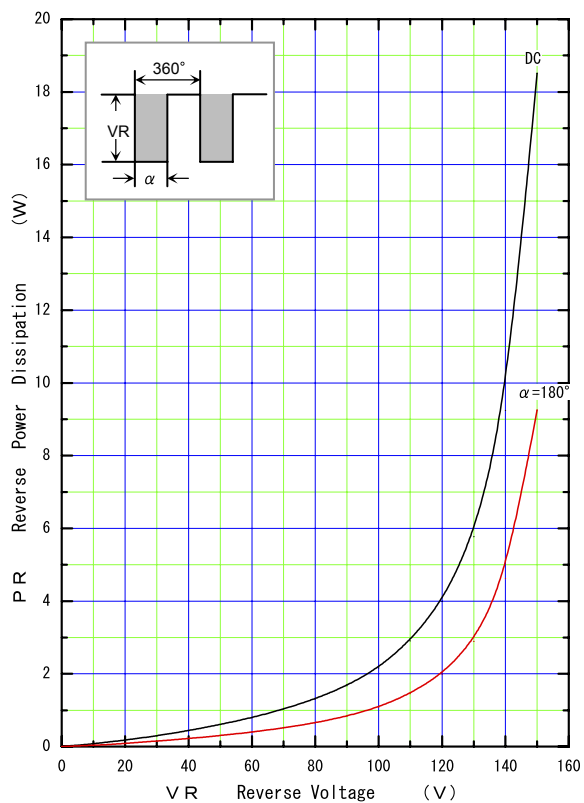
Reverse Characteristic (typ.)

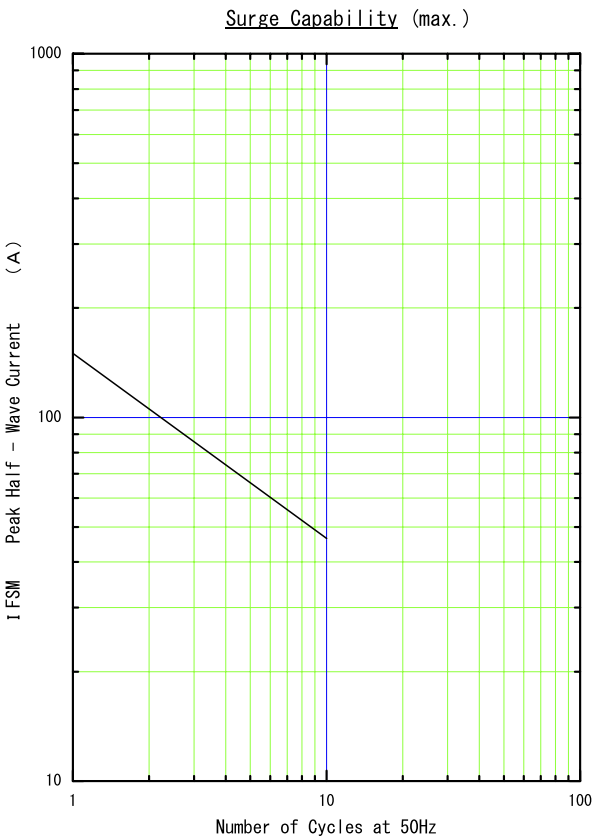
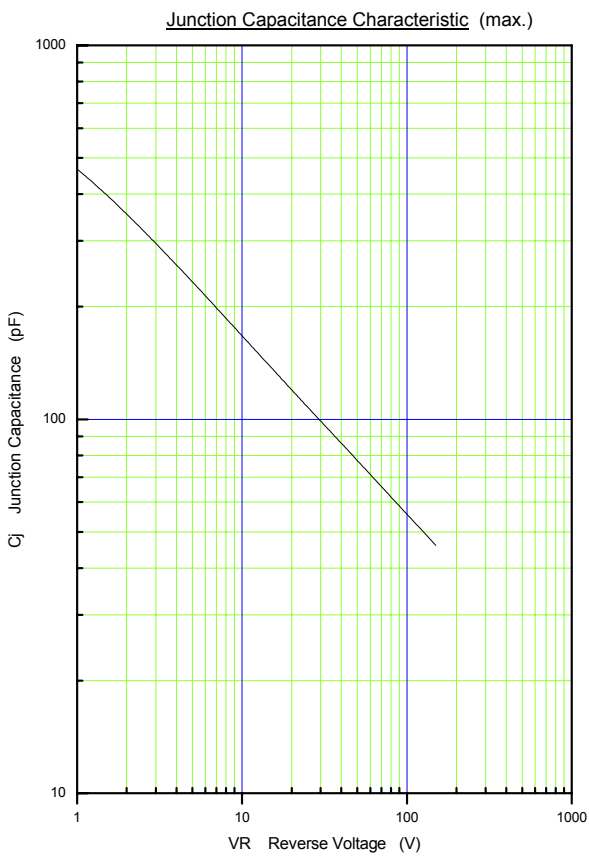
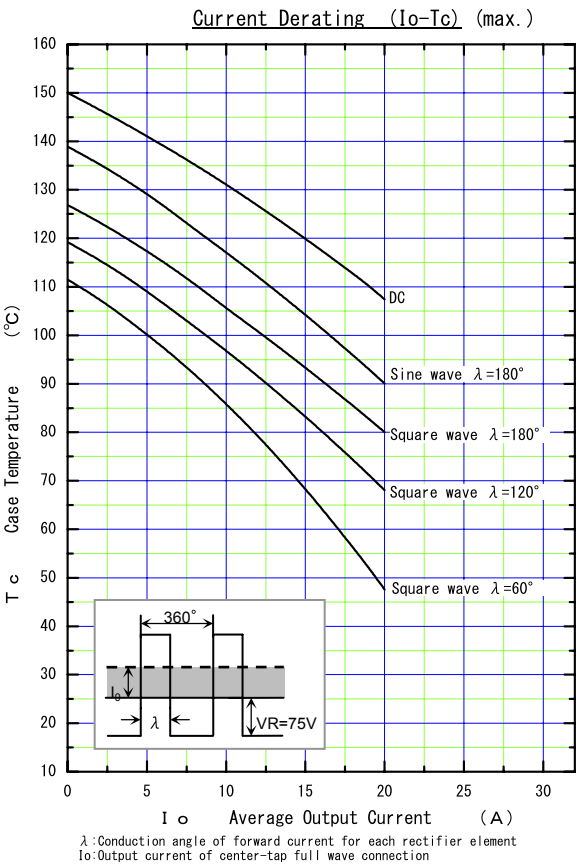


Forward Power Dissipation (max.)

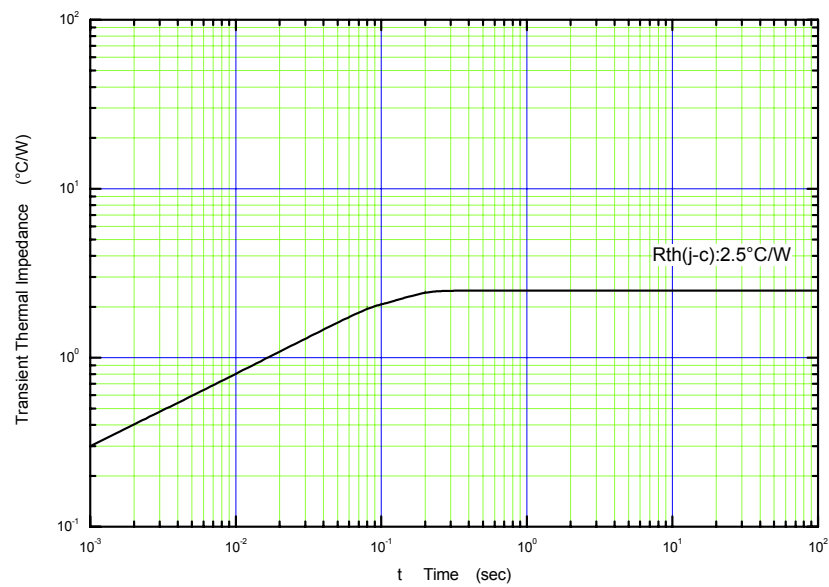


Reverse Power Dissipation (max.)





Transient Thermal Impedance (max.)



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