

YG872C10R (100V, 10A)

FUJI Diode

Ultra Low IR Schottky Barrier Diode

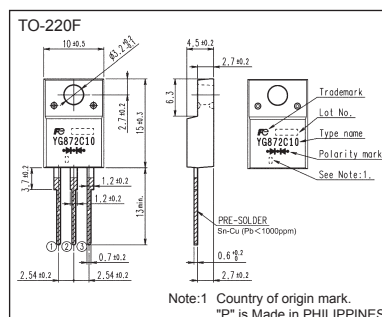
■ Features

- Ultra Low IR
- Low V_F
- T_J MAX = 175°C
- High reliability at higher temperatures

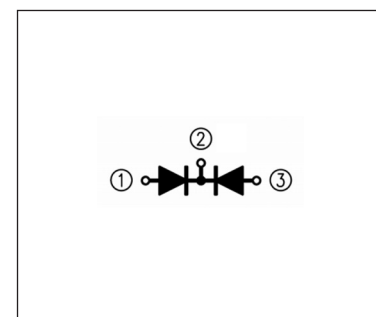
■ Applications

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

■ Outline Drawings [mm]



■ Connection diagram



■ Maximum Ratings and Characteristics

● Maximum ratings (at $T_a=25^\circ\text{C}$ Unless otherwise specified)

| Item | Symbols | Conditions | Ratings | Units |
|---------------------------------|-----------|--|-------------|-------|
| Repetitive peak reverse voltage | V_{RRM} | | 100 | V |
| Isolating voltage | V_{iso} | Terminals-to-case, AC.1min | 1500 | V |
| Average output current | I_o | 50Hz Square wave duty = 1/2 $T_c = 146^\circ\text{C}$ | 10 * | A |
| Non-repetitive surge current ** | I_{FSM} | Sine wave, 10ms 1shot | 125 | A |
| Operating junction temperature | T_J | | 175 | °C |
| Storage temperature | T_{stg} | | -40 to +175 | °C |

*Out put current of center tap full wave connection.

**Rating per element

● Electrical characteristics (at $T_a=25^\circ\text{C}$ Unless otherwise specified)

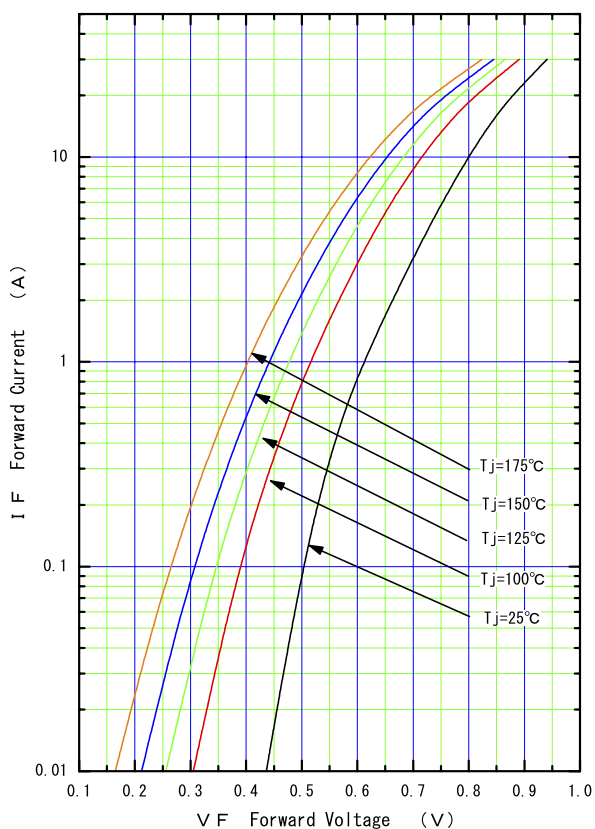
| Item | Symbols | Conditions | Maximum | Units |
|--------------------|---------------|--------------------|---------|---------------|
| Forward voltage*** | V_F | $I_F = 5\text{ A}$ | 0.82 | V |
| Reverse current*** | I_R | $V_R = V_{RRM}$ | 15 | μA |
| Thermal resistance | $R_{th(j-c)}$ | Junction to case | 3.5 | °C/W |

***Rating per element

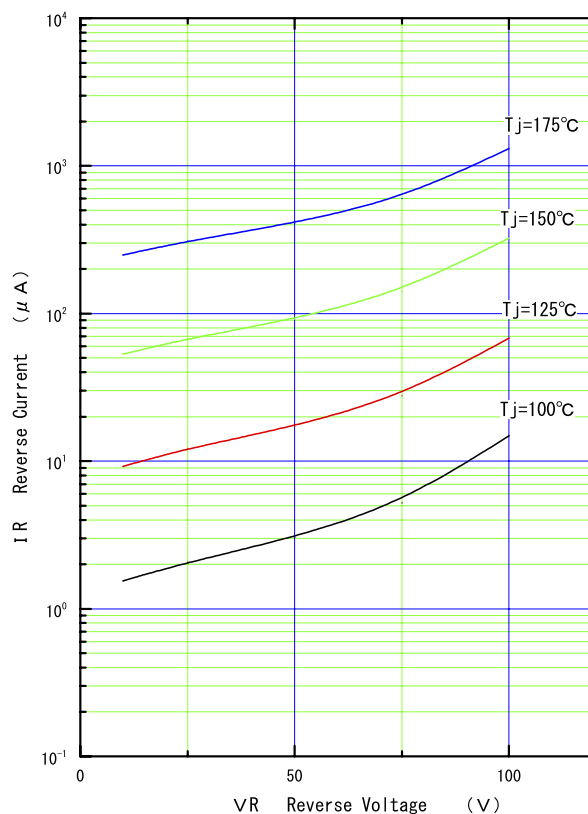
● Mechanical characteristics

| Item | Conditions | Ratings | Units |
|------------------|--------------------|------------|-------|
| Mounting torque | Recommended torque | 0.3 to 0.5 | N•m |
| Approximate mass | | 2.0 | g |

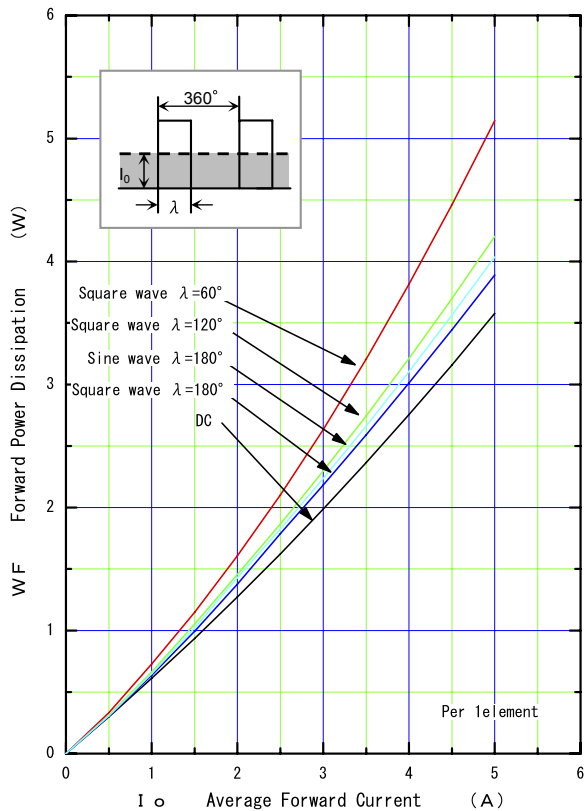
Forward Characteristic (typ.)



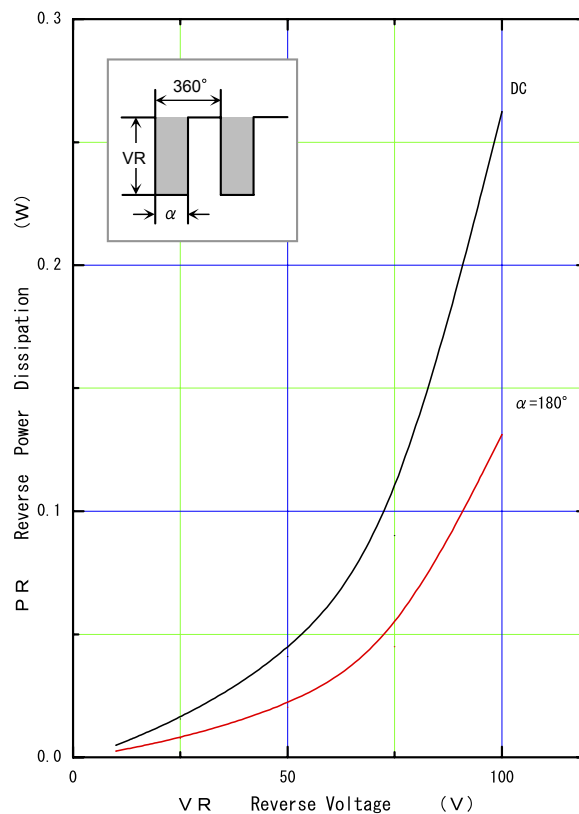
Reverse Characteristic (typ.)

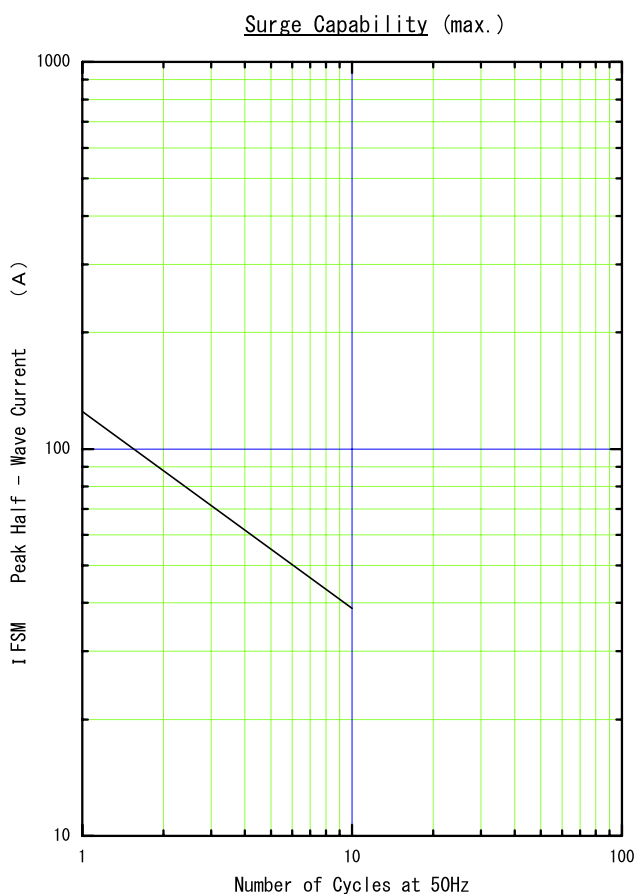
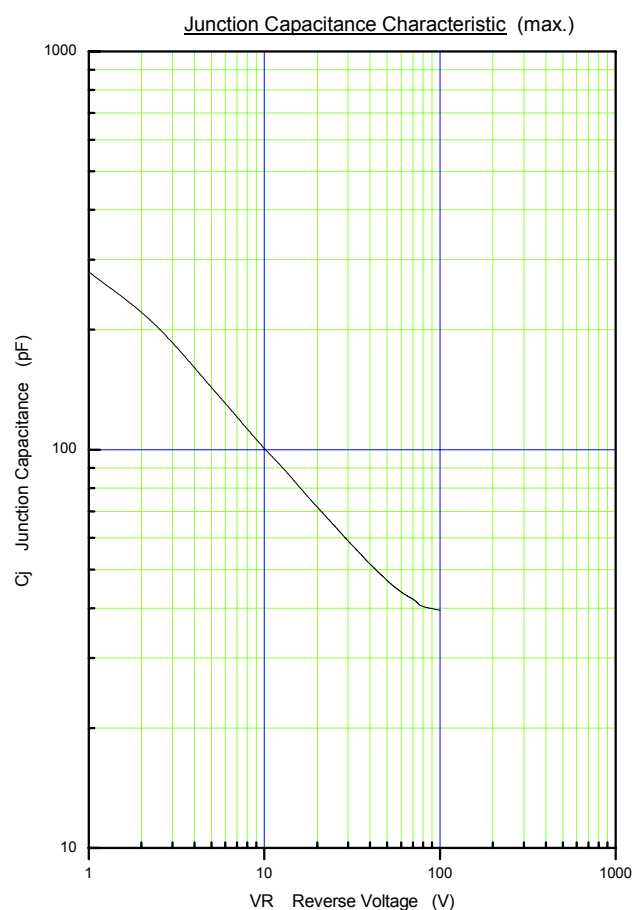
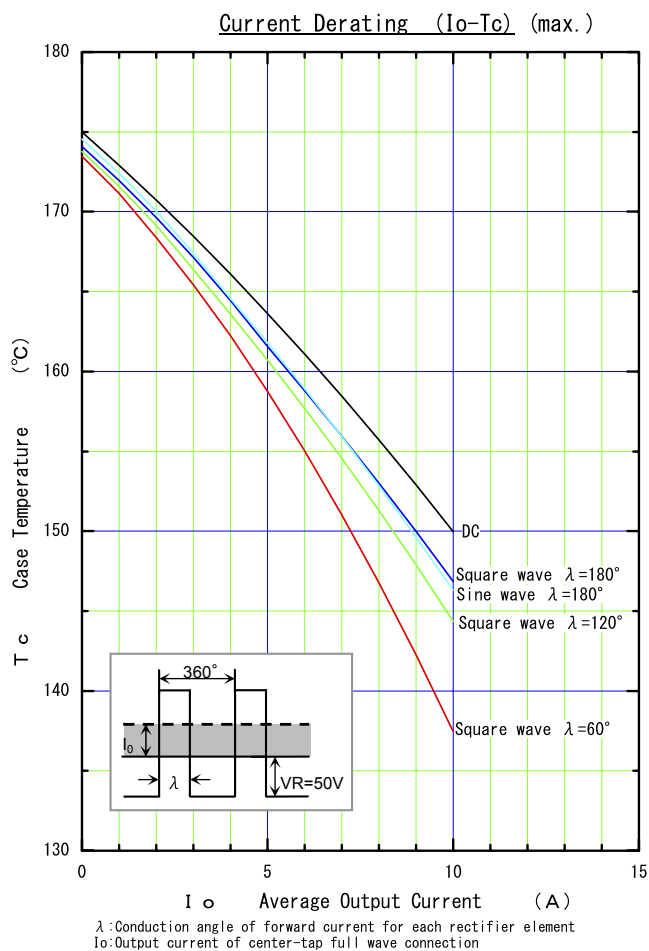


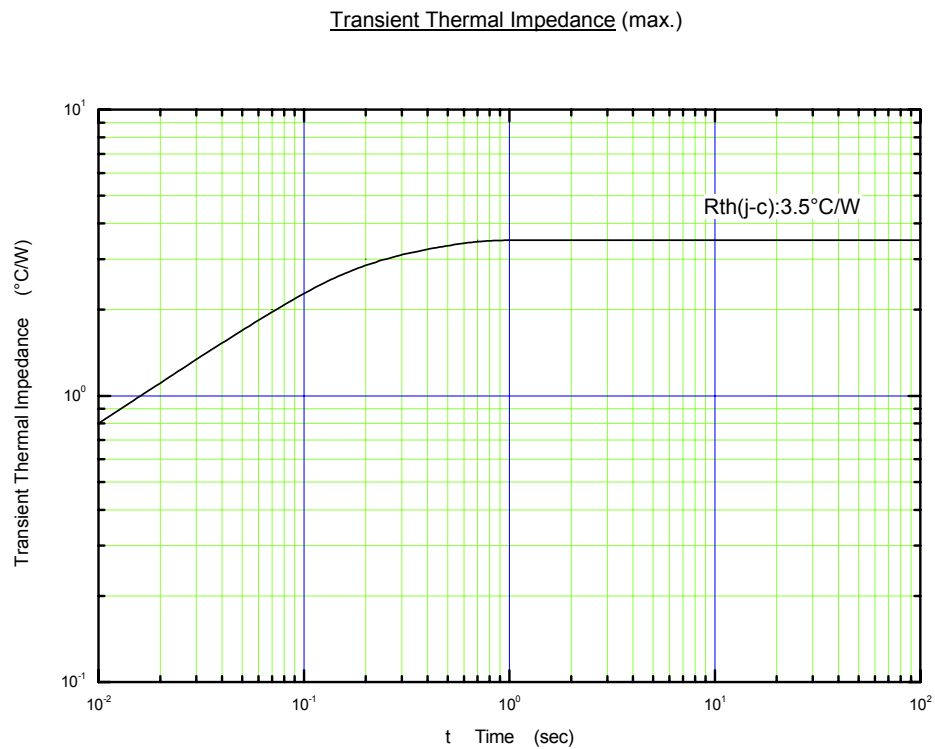
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)







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