

# YG985C3R

**FUJI Diode**

## Low-Loss Fast Recovery Diode

### ■ Maximum Rating and Characteristics

#### ● Maximum ratings (at Ta=25°C unless otherwise specified.)

| Item                                   | Symbols   | Conditions                               | Ratings     | Units |
|----------------------------------------|-----------|------------------------------------------|-------------|-------|
| Repetitive peak reverse voltage        | $V_{RRM}$ | -                                        | 300         | V     |
| Isolating voltage                      | $V_{iso}$ | Terminals-to-case, AC. 1min              | 1500        | V     |
| Average output current                 | $I_o$     | 50Hz Square wave duty =1/2<br>Tc = 105°C | 20*         | A     |
| Non-repetitive forward surge current** | $I_{FSM}$ | Sine wave, 10ms 1shot                    | 110         | A     |
| Operating junction temperature         | $T_j$     | -                                        | 150         | °C    |
| Storage temperature                    | $T_{stg}$ | -                                        | -40 to +150 | °C    |

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

Note\*\* Rating per element

#### ● Electrical characteristics (at Ta=25°C unless otherwise specified.)

| Item                     | Symbols       | Conditions                                                              | Maximum | Units |
|--------------------------|---------------|-------------------------------------------------------------------------|---------|-------|
| Forward voltage***       | $V_F$         | $I_F = 10\text{ A}$                                                     | 1.3     | V     |
| Reverse current***       | $I_R$         | $V_R = V_{RRM}$                                                         | 35      | μA    |
| Reverse recovery time*** | $t_{rr}$      | $I_F = 0.1\text{ A}$ , $I_R = 0.2\text{ A}$ , $I_{rec} = 0.05\text{ A}$ | 0.04    | μS    |
| Thermal resistance       | $R_{th(j-c)}$ | Junction to case                                                        | 1.75    | °C/W  |

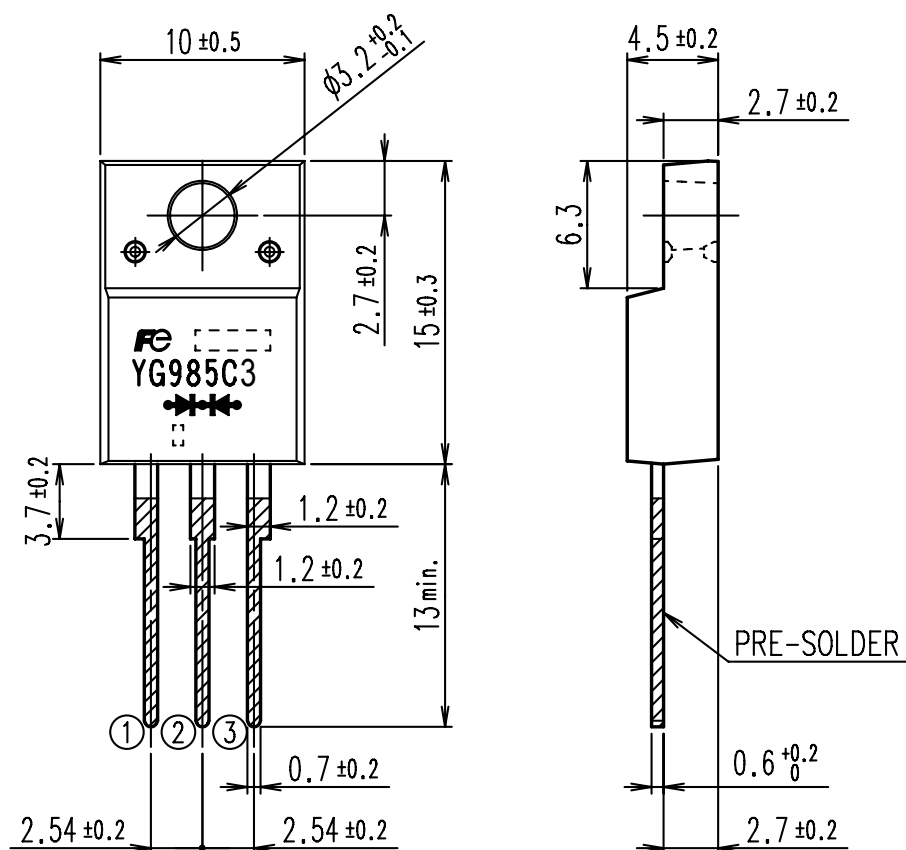
Note\*\*\* Rating per element

#### ● Mechanical characteristics

| Item             | Conditions         | Maximum    | Units |
|------------------|--------------------|------------|-------|
| Mounting torque  | Recommended torque | 0.3 to 0.5 | N•m   |
| Approximate mass | -                  | 1.7        | g     |

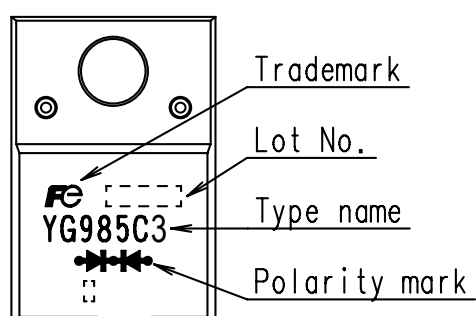
■ Outline Drawings [mm]

OUT VIEW

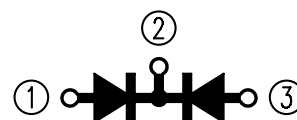


DIMENSIONS ARE IN MILLIMETERS.

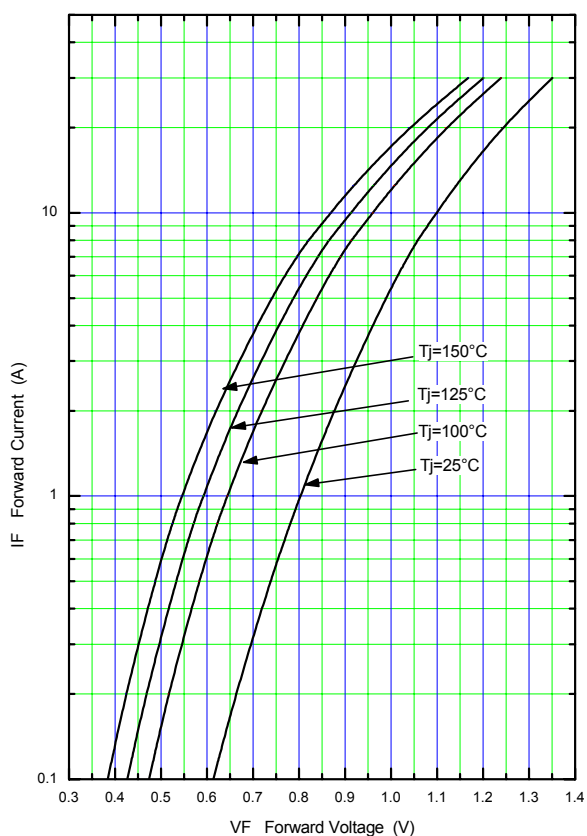
MARKING



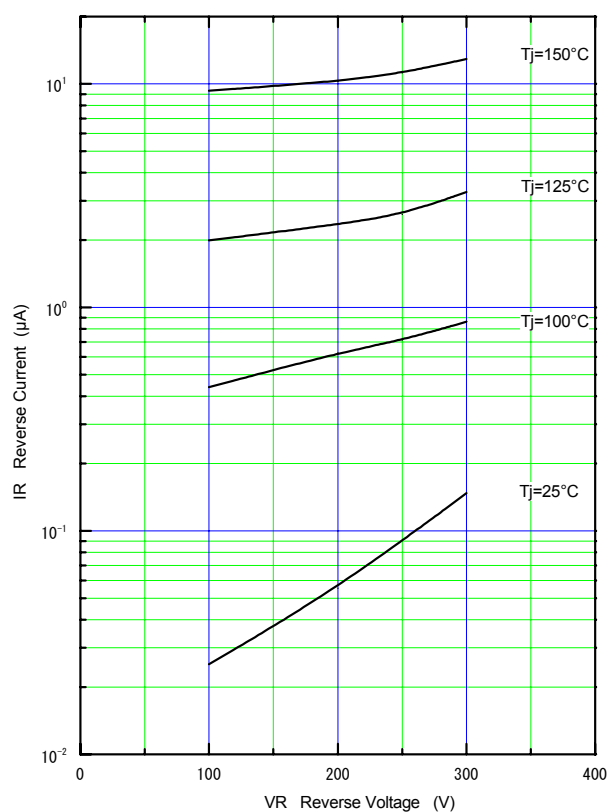
CONNECTION



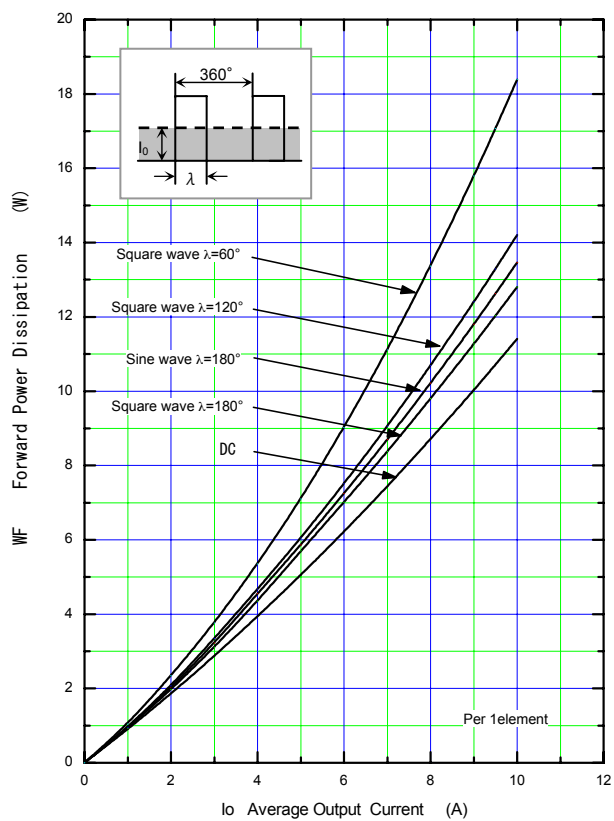
Forward Characteristic (typ.)



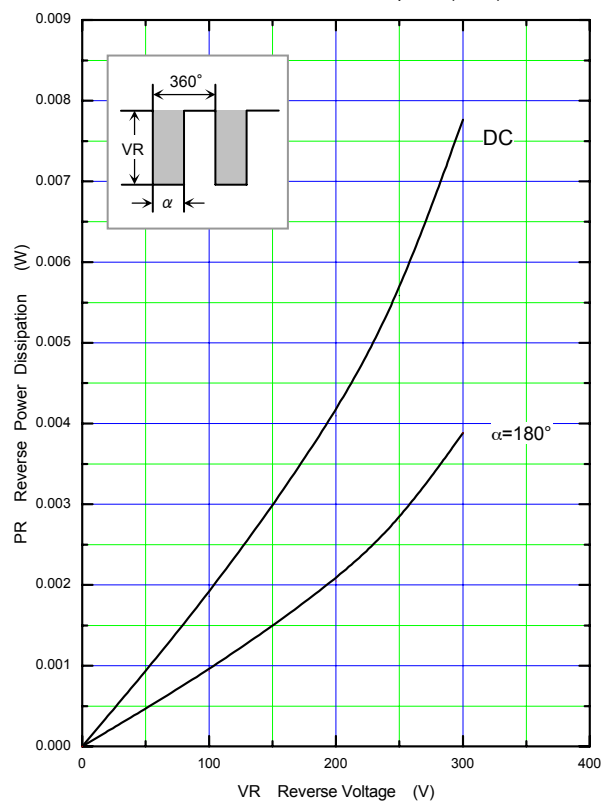
Reverse Characteristic (typ.)

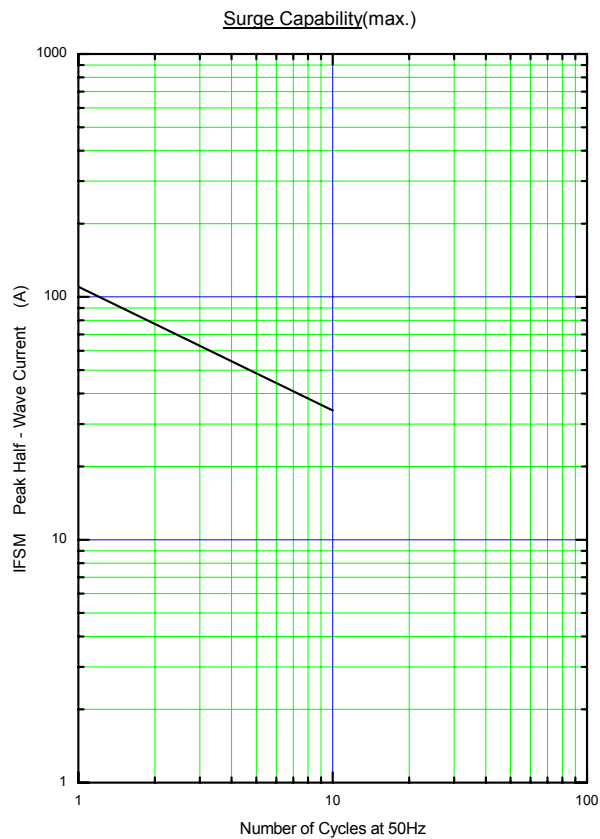
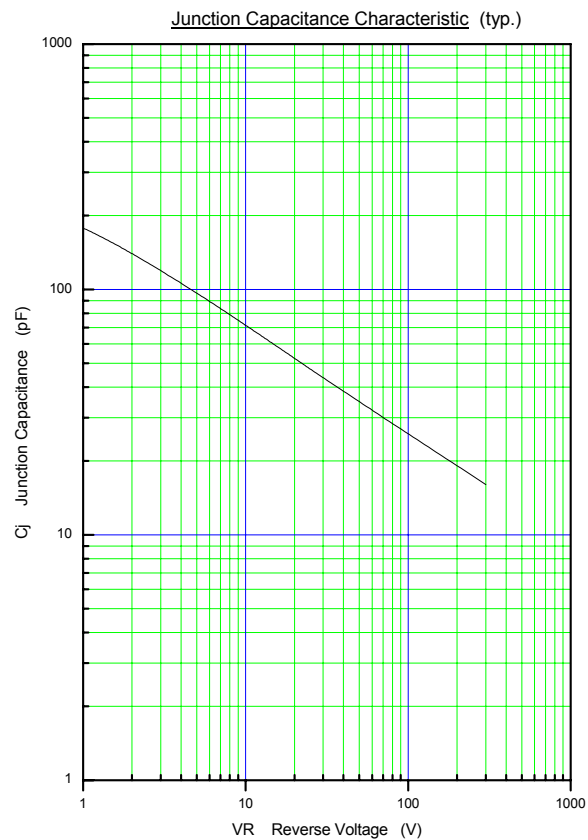
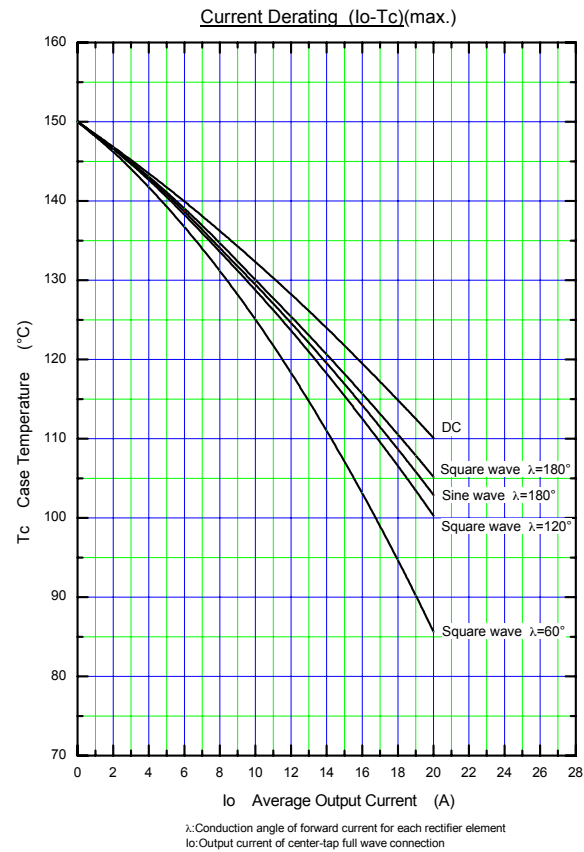


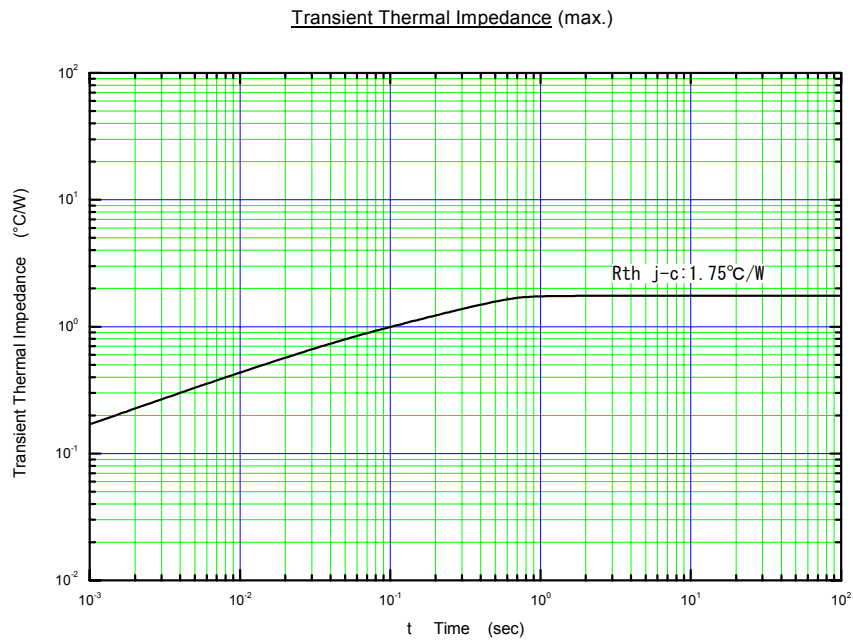
Forward Power Dissipation(max.)



Reverse Power Dissipation(max.)







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