

TS985C3R

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 |
| Average output current | I_o | 50Hz Square wave duty =1/2 Tc = 118°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 | 1.25 | °C/W |

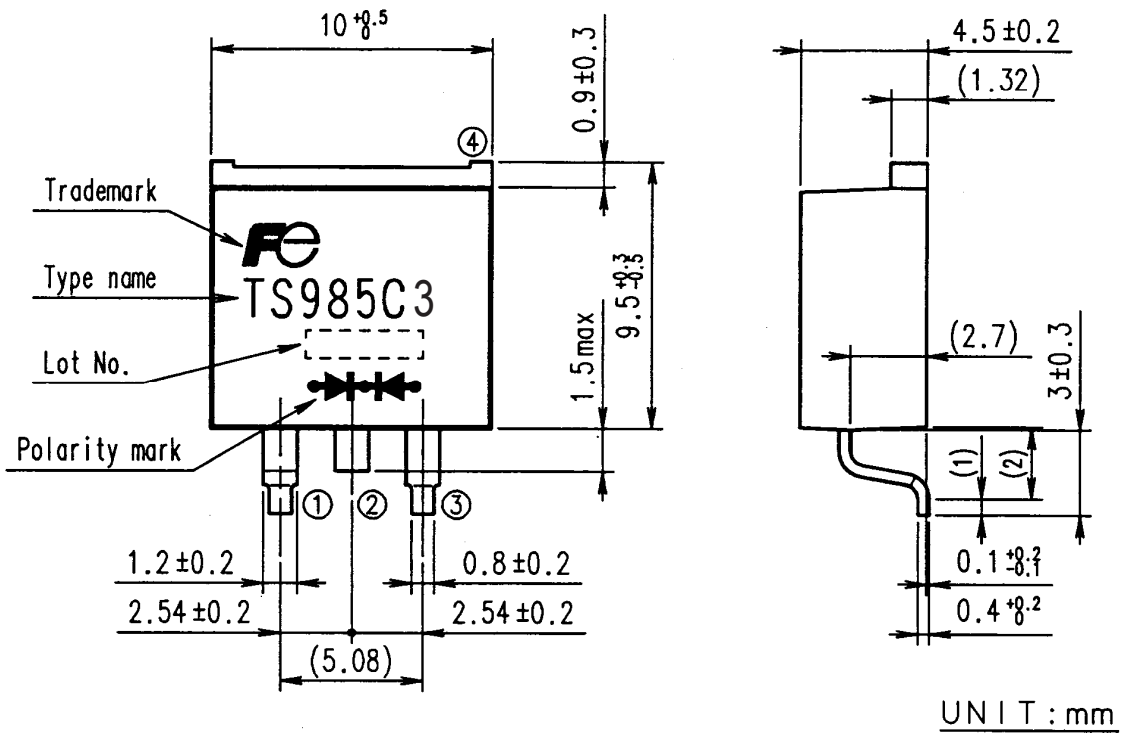
Note*** Rating per element

● Mechanical characteristics

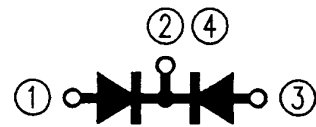
| Item | Conditions | Maximum | Units |
|------------------|------------|---------|-------|
| Approximate mass | - | 1.6 | g |

■ Outline Drawings [mm]

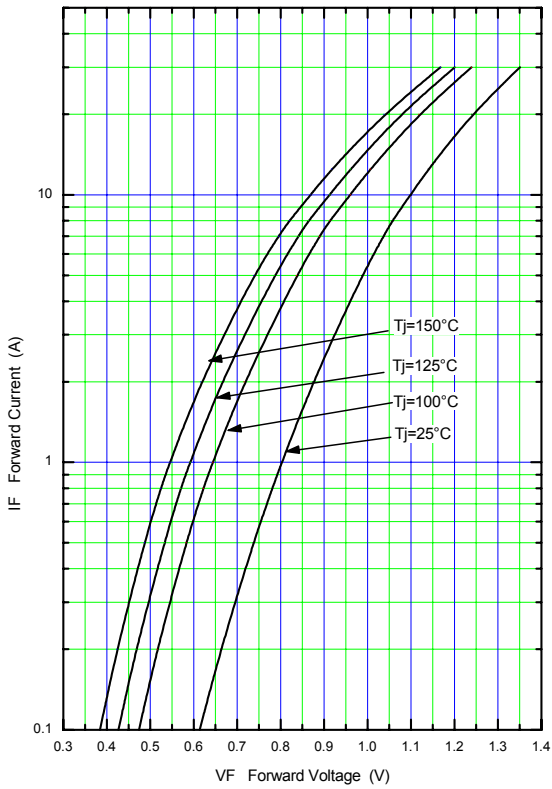
OUT VIEW



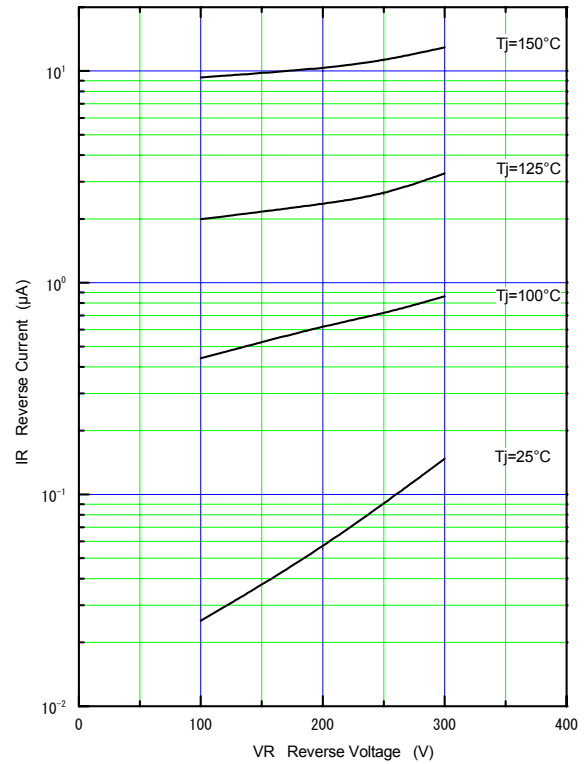
CONNECTION



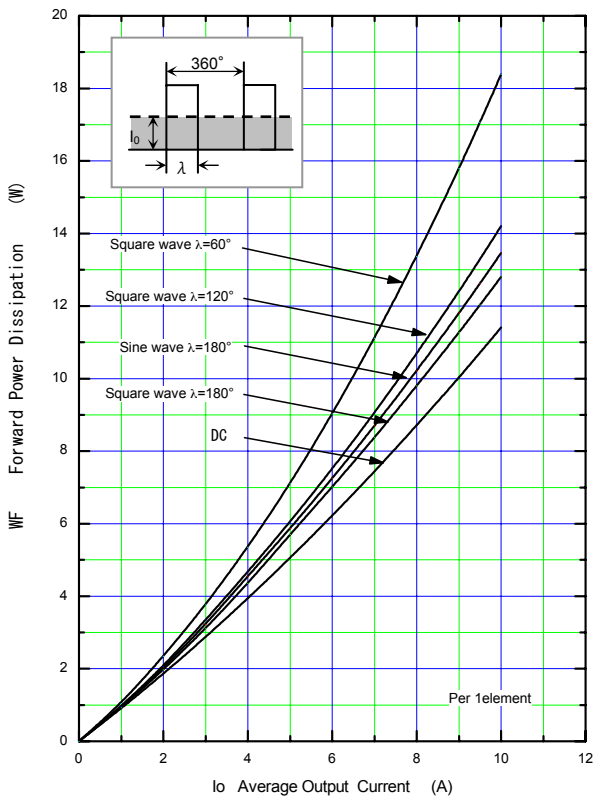
Forward Characteristic (typ.)



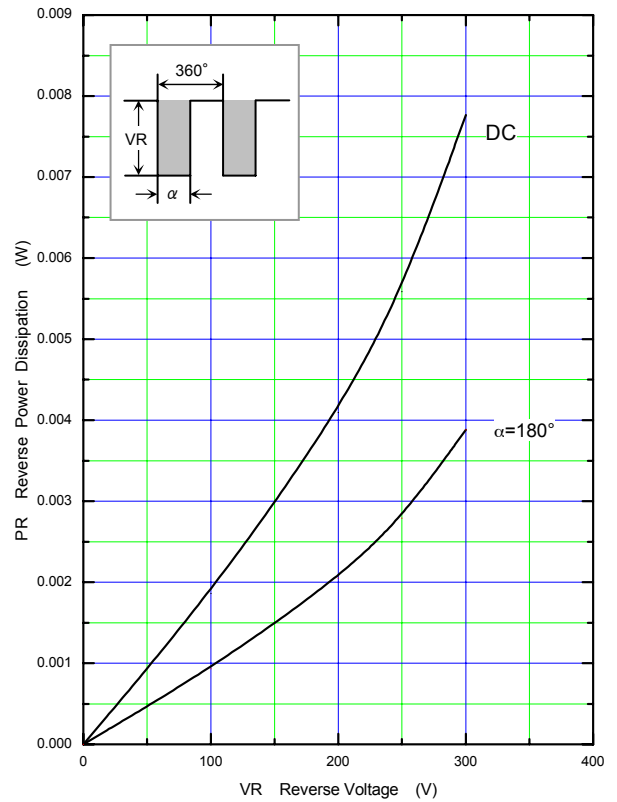
Reverse Characteristic (typ.)



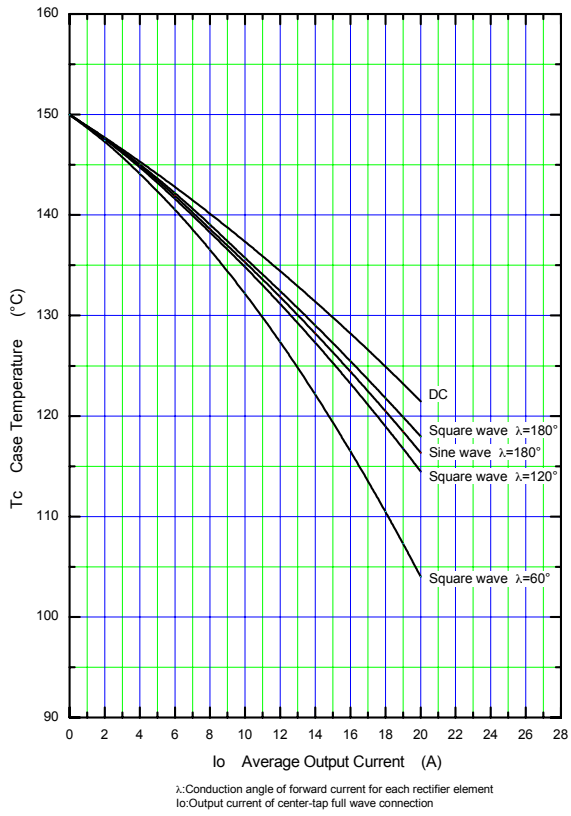
Forward Power Dissipation(max.)



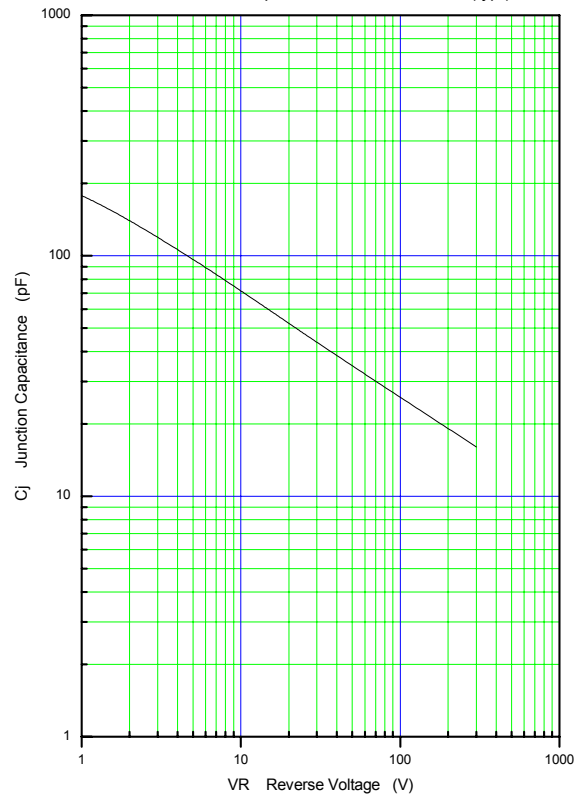
Reverse Power Dissipation(max.)



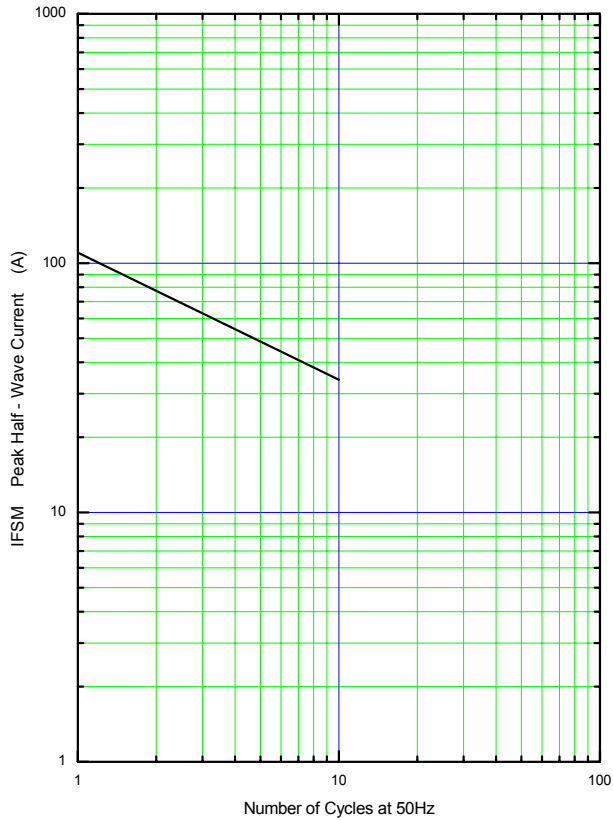
Current Derating (Io-Tc)(max.)



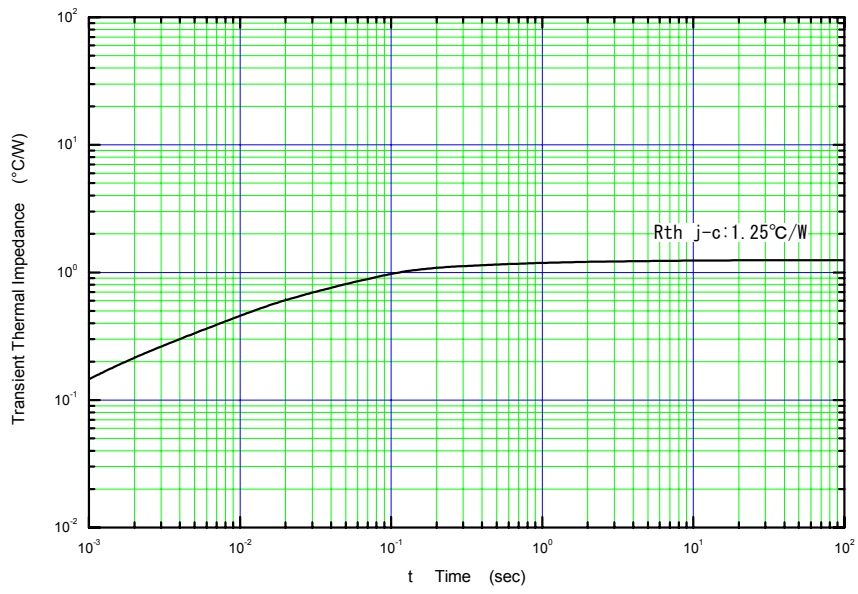
Junction Capacitance Characteristic (typ.)



Surge Capability(max.)



Transient Thermal Impedance (max.)



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 - Safety devices
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