

# ERC80-004R

FUJI Diode

## Schottky Barrier Diode

### Maximum Rating and Characteristics

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

| Item                                  | Symbols   | Conditions                               | Ratings     | Units |
|---------------------------------------|-----------|--|-------------|-------|
| Repetitive peak surge reverse voltage | $V_{RSM}$ | tw=500ns, duty=1/40                      | 48          | V     |
| Repetitive peak reverse voltage       | $V_{RRM}$ | -  | 40          | V     |
| Average forward current               | $I_{fAV}$ | 50Hz Square wave duty =1/2<br>Tc = 122°C | 5           | A     |
| Non-repetitive forward surge current  | $I_{FSM}$ | Sine wave, 10ms 1shot                    | 120         | A     |
| Operating junction temperature        | Tj        | -  | 150         | °C    |
| Storage temperature                   | Tstg      | -  | -40 to +150 | °C    |

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

| Item               | Symbols       | Conditions         | Maximum | Units |
|--------------------|---------------|--------------------|---------|-------|
| Forward voltage*** | $V_F$         | $I_F = 5\text{ A}$ | 0.55    | V     |
| Reverse current*** | $I_R$         | $V_R = V_{RRM}$    | 5       | mA    |
| Thermal resistance | $R_{th(j-c)}$ | Junction to case   | 5       | °C/W  |

Note\*\*\* Rating per element

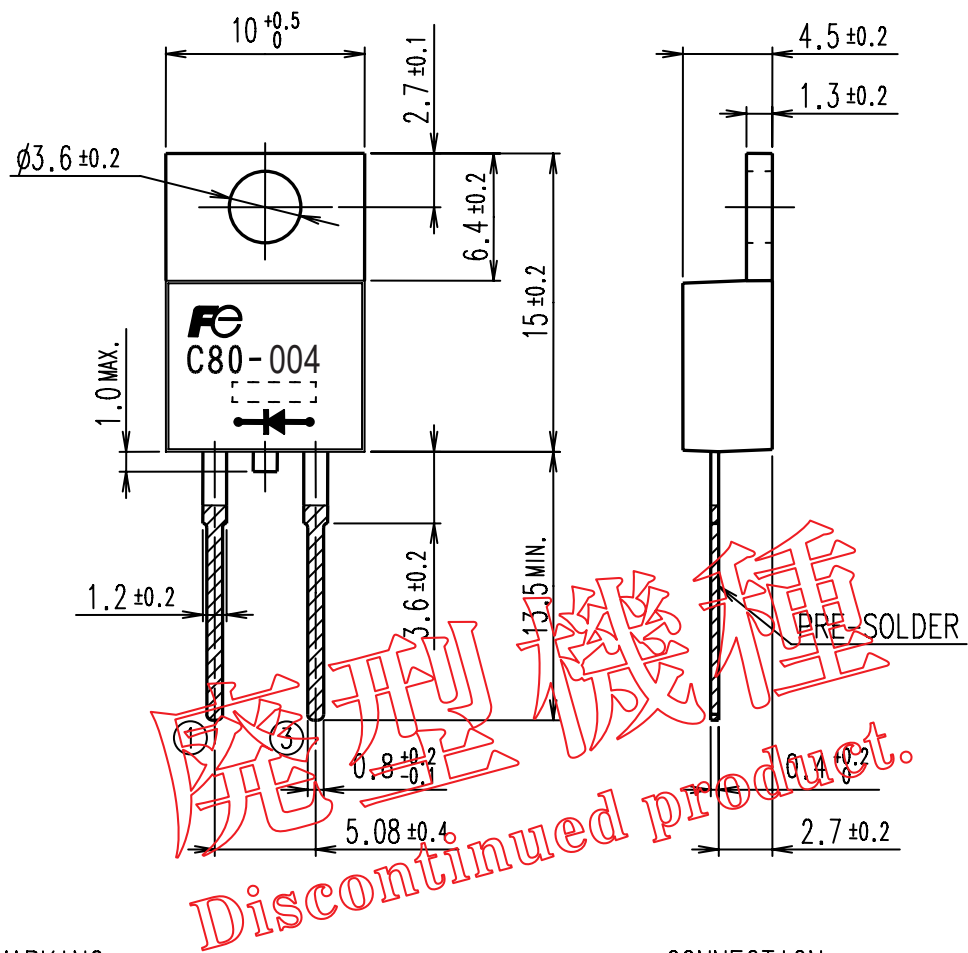
#### Mechanical characteristics

| Item             | Conditions         | Maximum    | Units |
|------------------|--------------------|------------|-------|
| Mounting torque  | Recommended torque | 0.3 to 0.5 | N•m   |
| Approximate mass | -                  | 2          | g     |

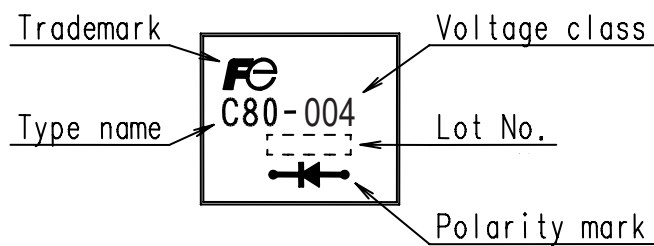
廃型機種  
Discontinued product.

Outline Drawings [mm]

OUT VIEW



MARKING

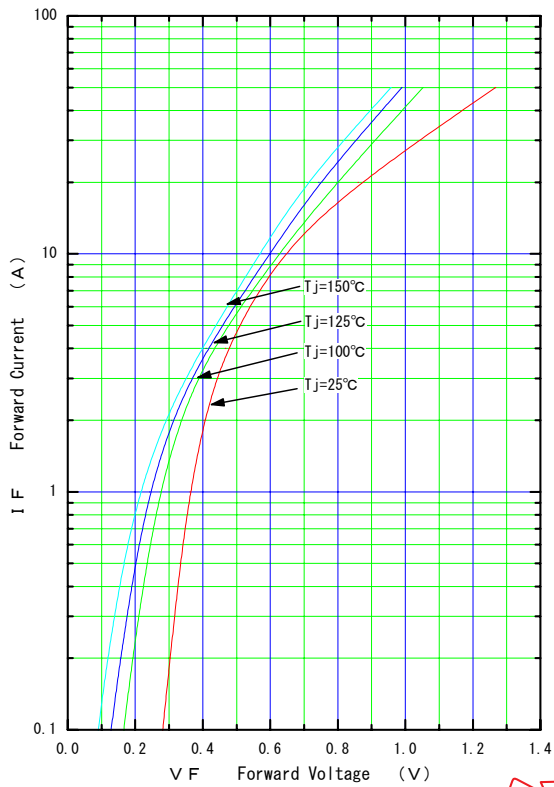


CONNECTION

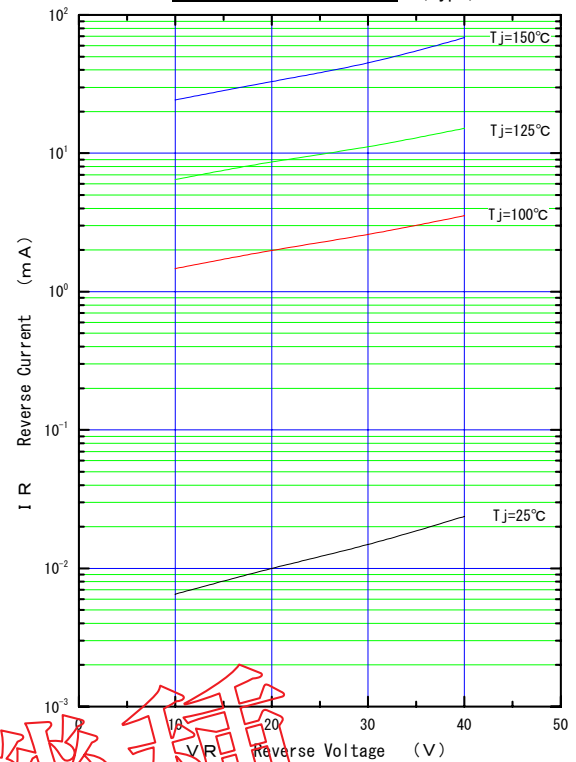


UNIT : mm

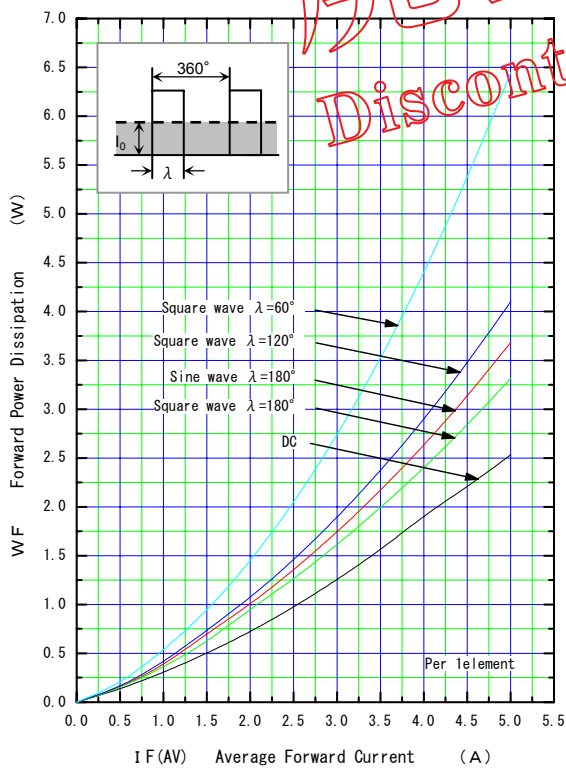
Forward Characteristic (typ.)



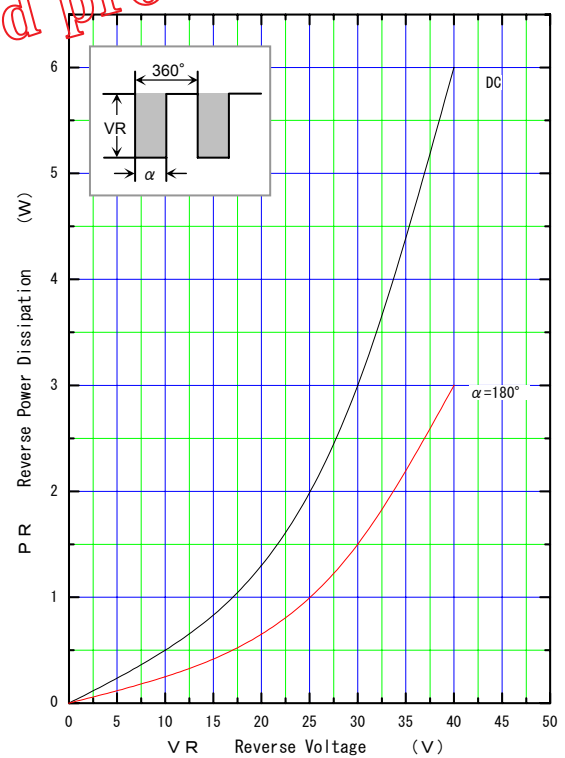
Reverse Characteristic (typ.)

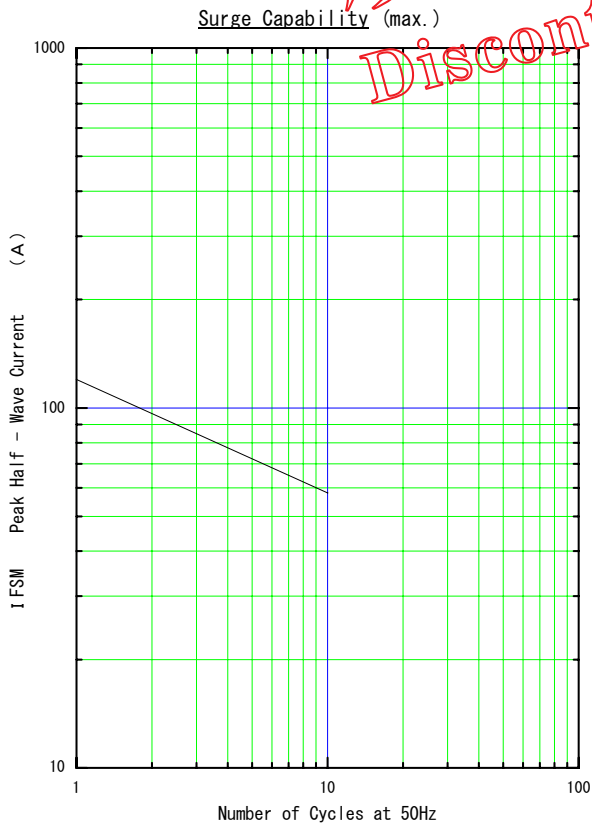
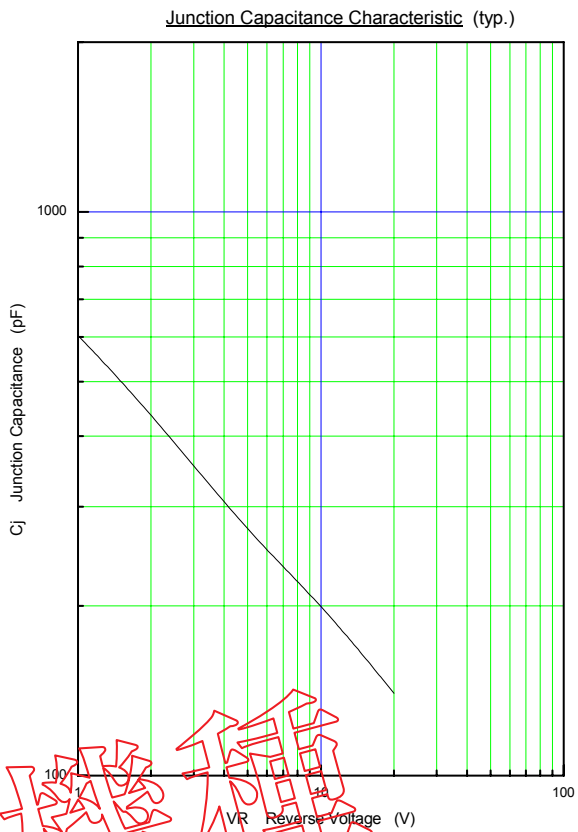
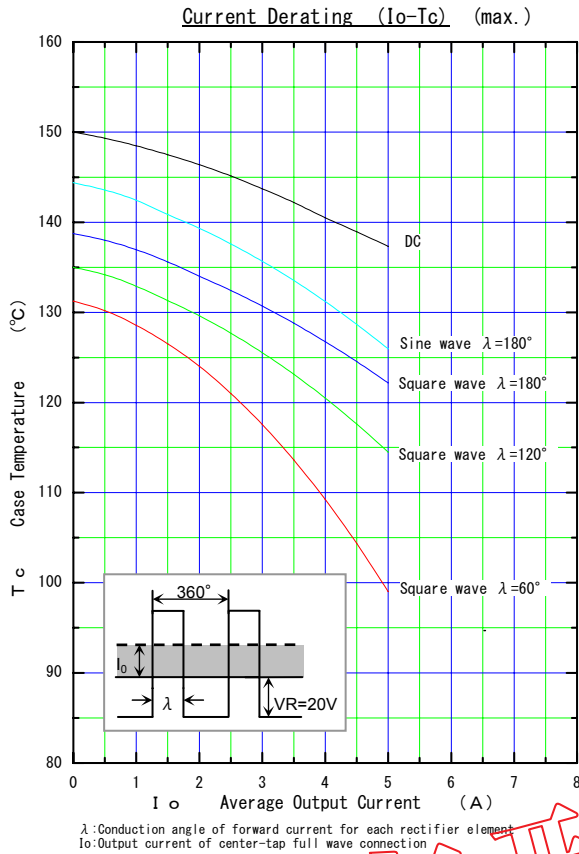


Forward Power Dissipation (max.)

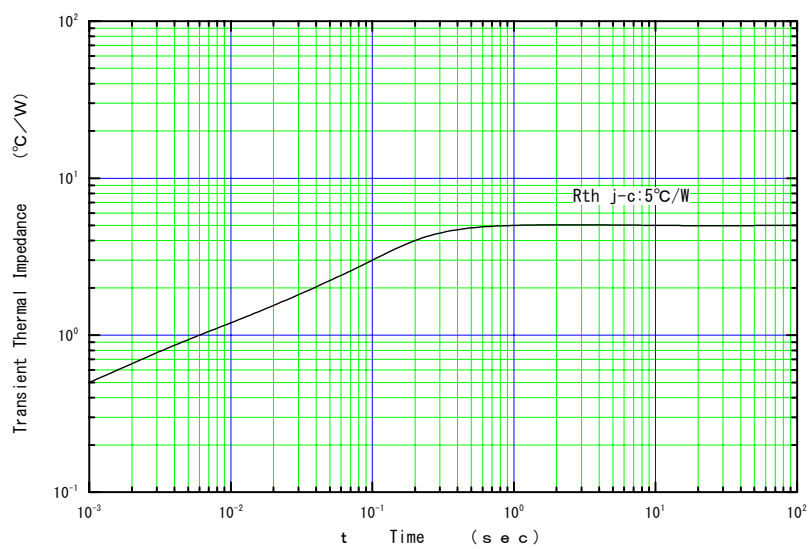


Reverse Power Dissipation (max.)





Transient Thermal Impedance (max.)



廃型機種  
Discontinued product.

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