

# ESAB92-02R

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        | $V_{RRM}$ | -  | 200         | V     |
| Average output current                 | $I_o$     | 50Hz Square wave duty =1/2<br>Tc = 120°C | 5 *         | A     |
| Non-repetitive forward surge current** | $I_{FSM}$ | Sine wave, 10ms 1shot                    | 25          | 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***       | $V_F$         | $I_F = 2.5A$                        | 0.95    | V     |
| Reverse current***       | $I_R$         | $V_R = V_{RRM}$                     | 100     | μA    |
| Reverse recovery time*** | $t_{rr}$      | $I_F=0.1A, I_R=0.2A, I_{rec}=0.05A$ | 0.035   | μs    |
| Thermal resistance       | $R_{th(j-c)}$ | Junction to case                    | 5       | °C/W  |

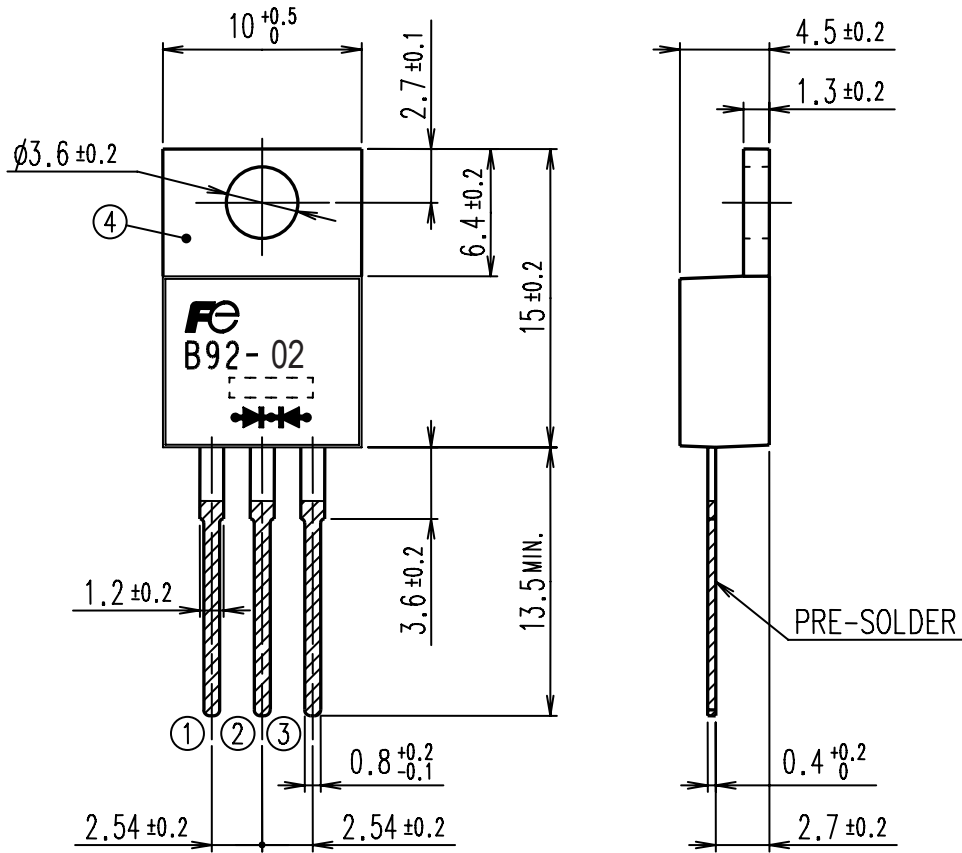
Note\*\*\* Rating per element

#### ● Mechanical characteristics

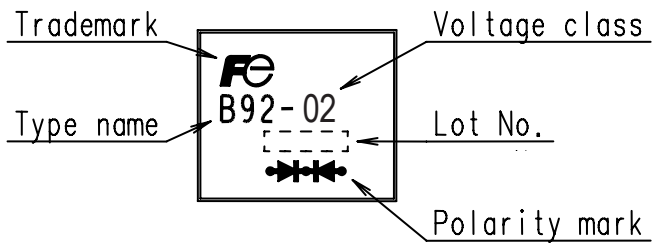
| Item             | Conditions         | Maximum    | Units |
|------------------|--------------------|------------|-------|
| Mounting torque  | Recommended torque | 0.3 to 0.5 | N•m   |
| Approximate mass | -                  | 2          | g     |

■ Outline Drawings [mm]

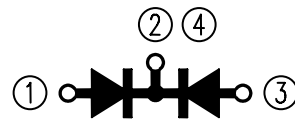
OUT VIEW



MARKING

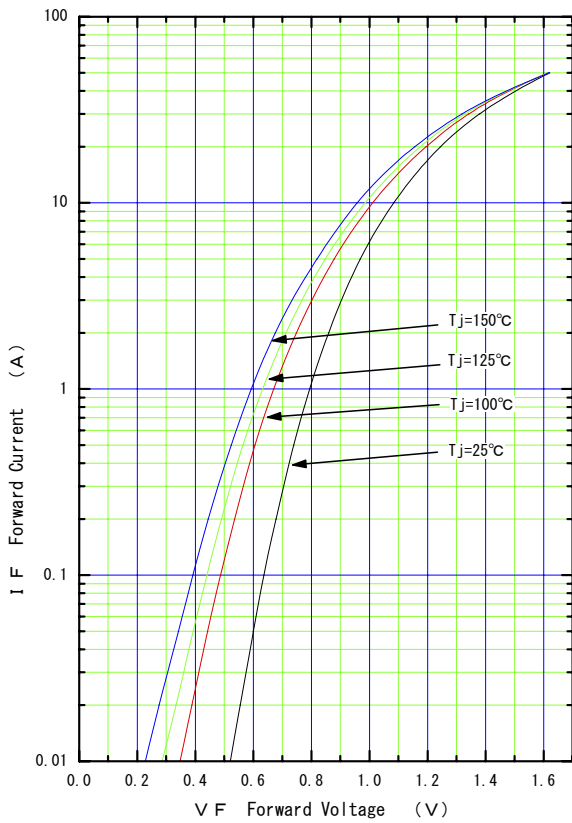


CONNECTION

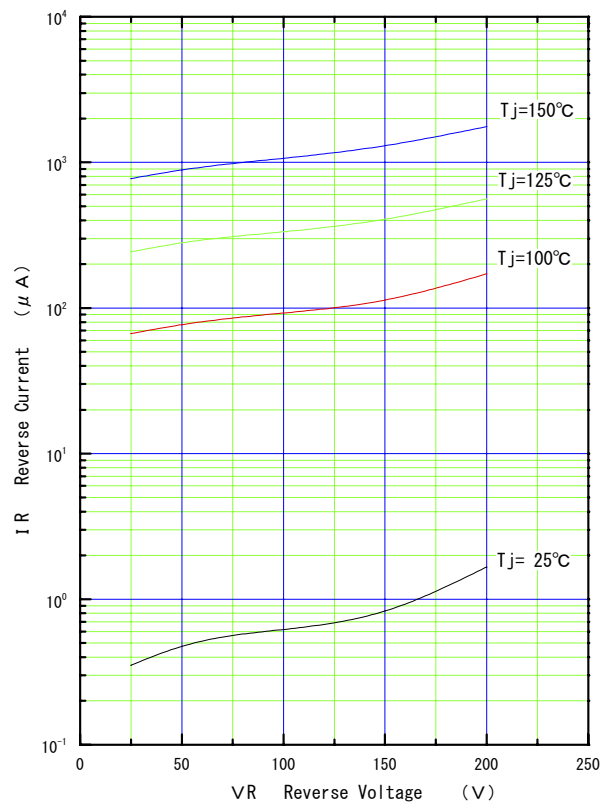


UNIT : mm

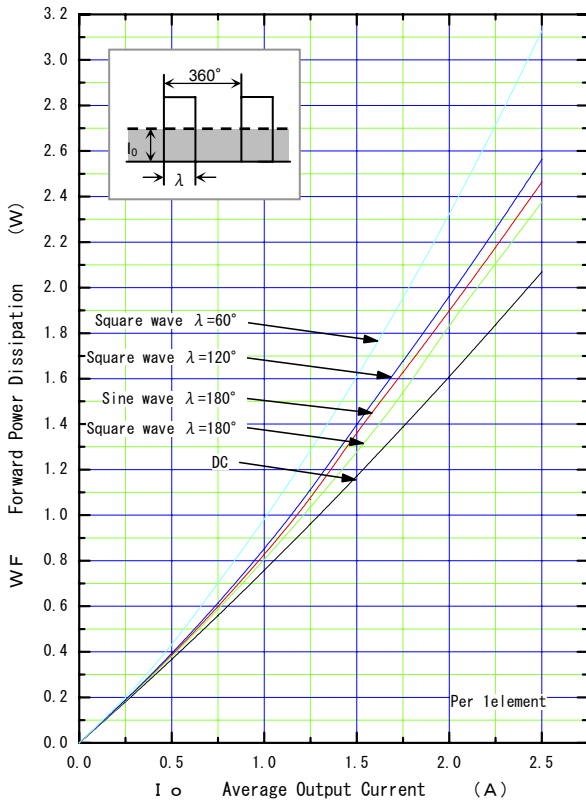
Forward Characteristic (typ.)



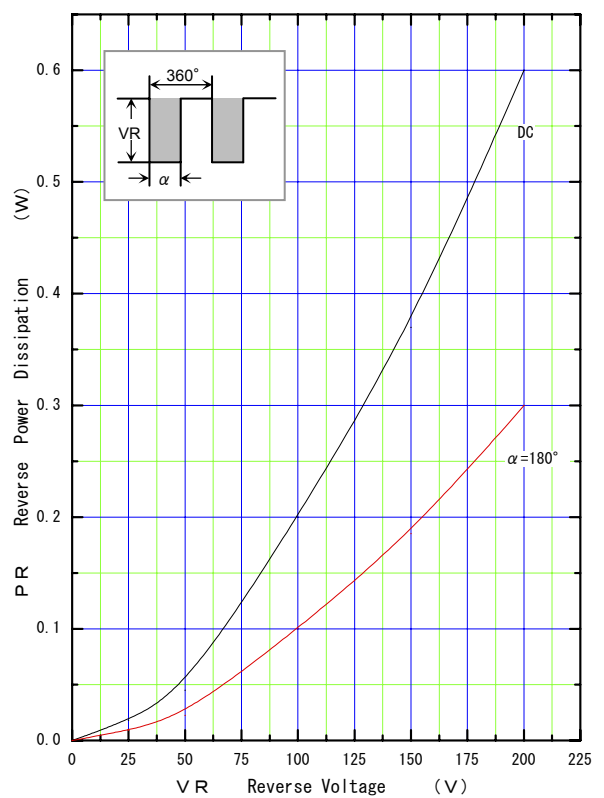
Reverse Characteristic (typ.)



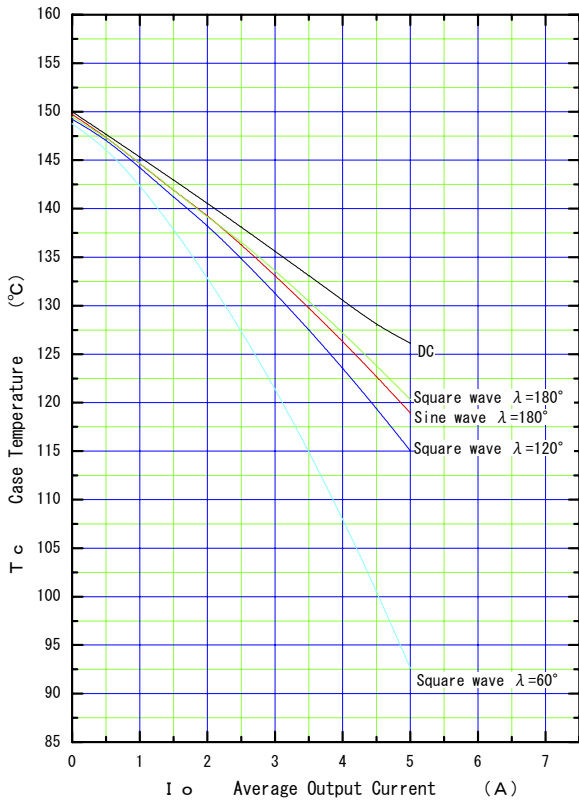
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

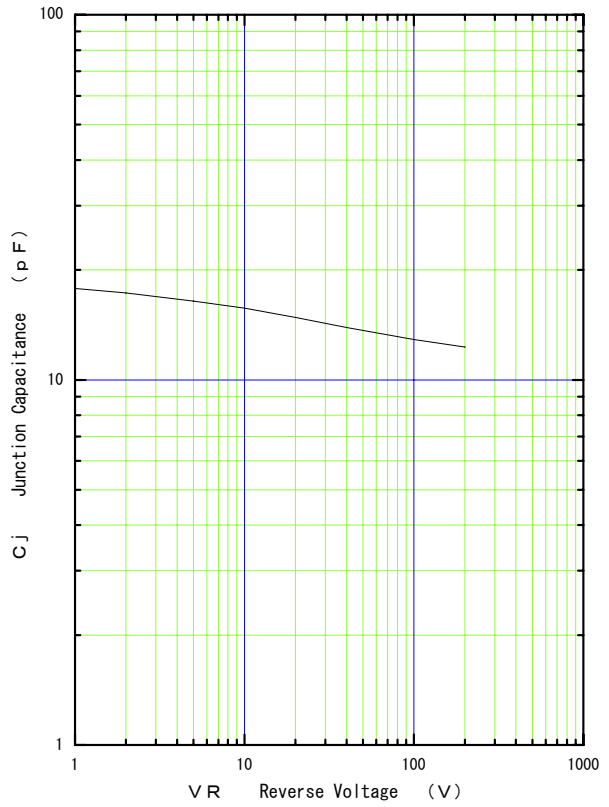


Current Derating ( $I_o - I_c$ ) (max.)

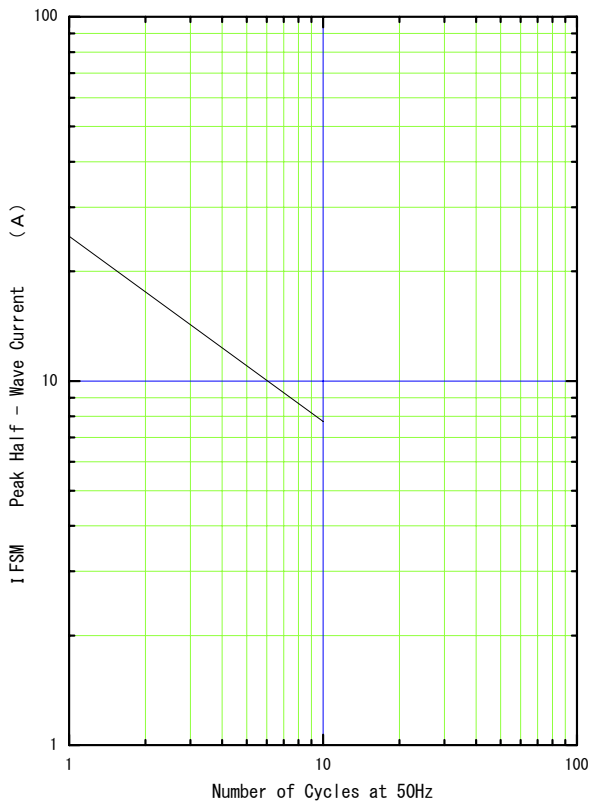


$\lambda$ : Conduction angle of forward current for each rectifier element  
 $I_o$ : Output current of center-tap full wave connection

Junction Capacitance Characteristic (typ.)



Surge Capability (max.)



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  - Audiovisual equipment
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