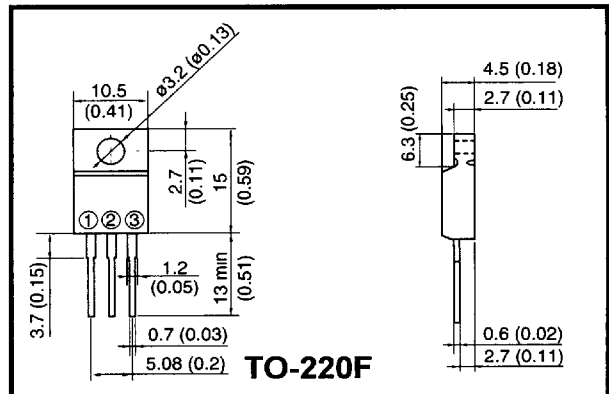


# YG802C09 (10A)

## SCHOTTKY BARRIER DIODE

## Outline Drawing



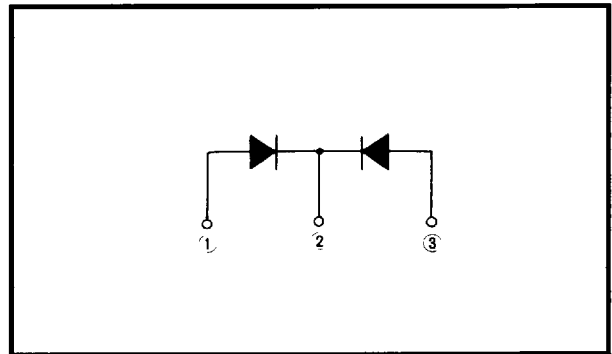
## Features

- Insulated package by fully molding
- Low  $V_F$
- Super high speed switching
- High reliability by planer design

## Applications

- High speed power switching

## Connection Diagram



## Maximum Ratings & Characteristics

- Absolute Maximum Ratings

| Items                               | Symbols   | Conditions                                 | Ratings     | Units      |
|-------------------------------------|-----------|--------------------------------------------|-------------|------------|
| Repetitive Peak Reverse Voltage     | $V_{RRM}$ |                                            | 90          | V          |
| Non-Repetitive Peak Reverse Voltage | $V_{RSM}$ | $t_w = 500ns$ , duty = 1/40                | 100         | V          |
| Average Forward Current             | $I_o$     | $T_c = 87^\circ C$ , duty 1/2, Square wave | 10*         | A          |
| Surge Current                       | $I_{FSM}$ | Sine Wave, 10ms                            | 80          | A          |
| Operating Junction Temperature      | $T_J$     |                                            | -40 to +125 | $^\circ C$ |
| Storage Temperature                 | $T_{stg}$ |                                            | -40 to +125 | $^\circ C$ |

\* Average forward current of centertap full wave connection

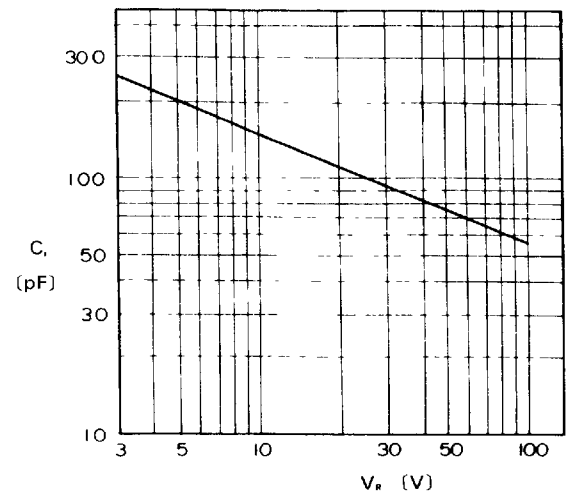
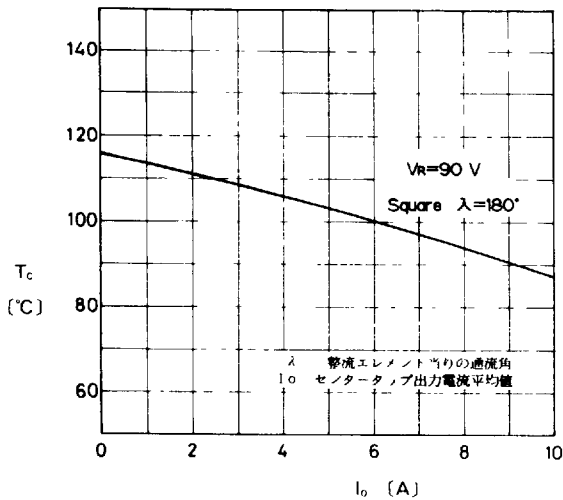
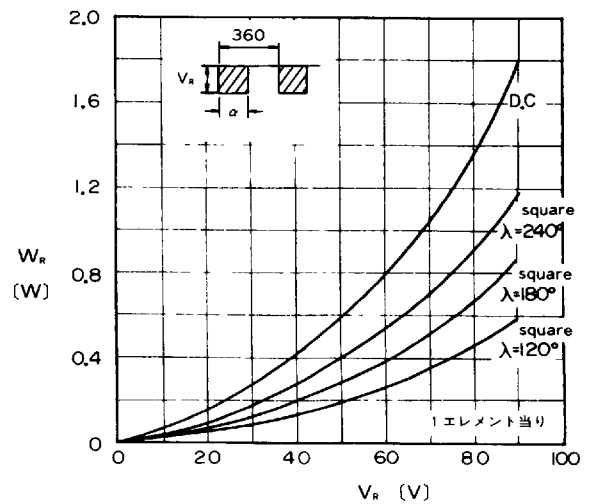
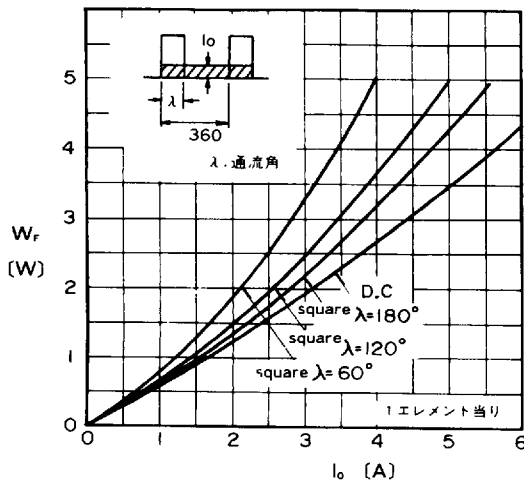
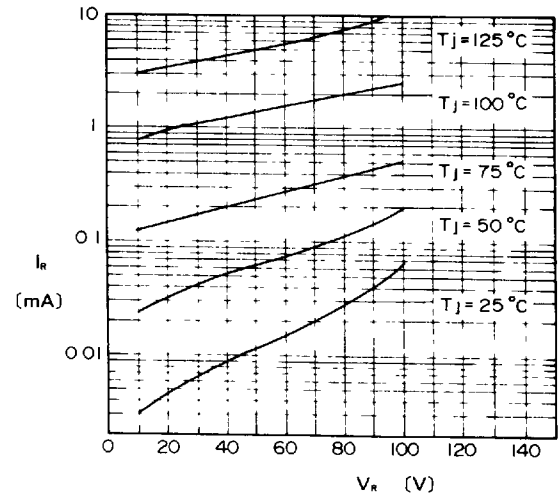
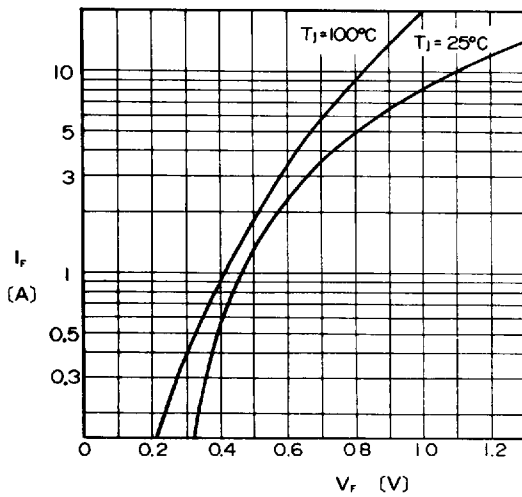
- Electrical Characteristics ( $T_a = 25^\circ C$  Unless otherwise specified)

| Items                | Symbols       | Conditions       | Ratings | Units        |
|----------------------|---------------|------------------|---------|--------------|
| Forward Voltage Drop | $V_F$         | $I_F = 4A$       | 0.90    | V            |
| Reverse Current      | $I_R$         | $V_R = V_{RRM}$  | 5.0     | mA           |
| Thermal Resistance   | $R_{th(j-c)}$ | Junction to case | 3.5     | $^\circ C/W$ |

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