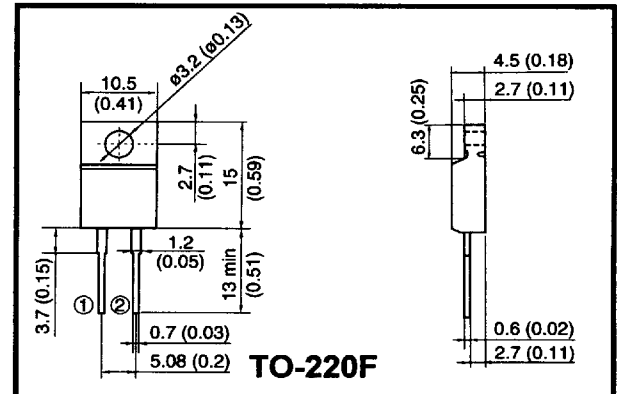


# YG811S09 (5A)

## SCHOTTKY BARRIER DIODE

## ■ Outline Drawing



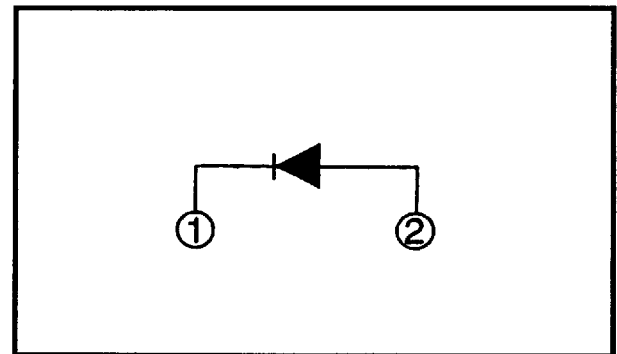
## ■ Features

- 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**

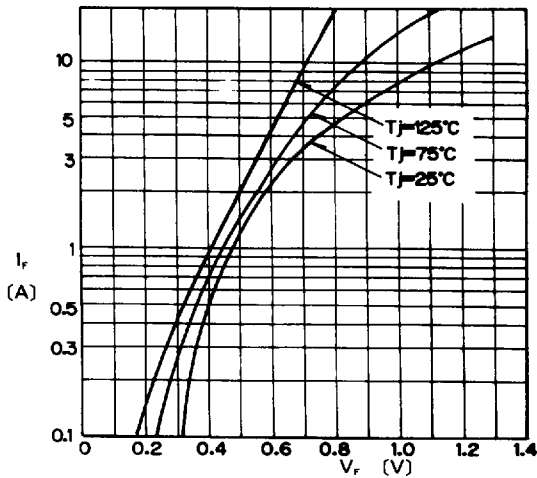
| Items                               | Symbols   | Conditions                                  | Ratings     | Units       |
|-------------------------------------|-----------|---------------------------------------------|-------------|-------------|
| Repetitive Peak Reverse Voltage     | $V_{RRM}$ |                                             | 90          | V           |
| Non-Repetitive Peak Reverse Voltage | $V_{RSM}$ | $t_w = 500ns$ , duty = 1/40                 | 100         | V           |
| Average Forward Current             | $I_o$     | $T_c = 98^{\circ}C$ , duty 1/2, Square wave | 5           | 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 | $^{\circ}C$ |

- **Electrical Characteristics (Ta = 25°C Unless otherwise specified)**

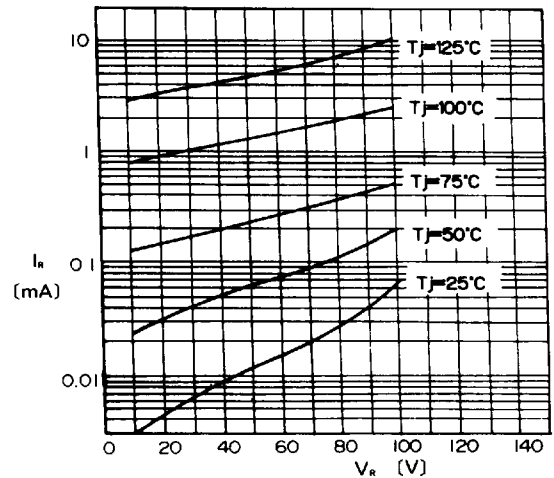
| Items                | Symbols           | Conditions       | Ratings | Units         |
|----------------------|-------------------|------------------|---------|---------------|
| Forward Voltage Drop | $V_F$             | $I_F = 4A$       | 0.9     | V             |
| Reverse Current      | $I_R$             | $V_R = V_{RRM}$  | 5.0     | mA            |
| Thermal Resistance   | $R_{\theta(j-c)}$ | Junction to case | 5.0     | $^{\circ}C/W$ |

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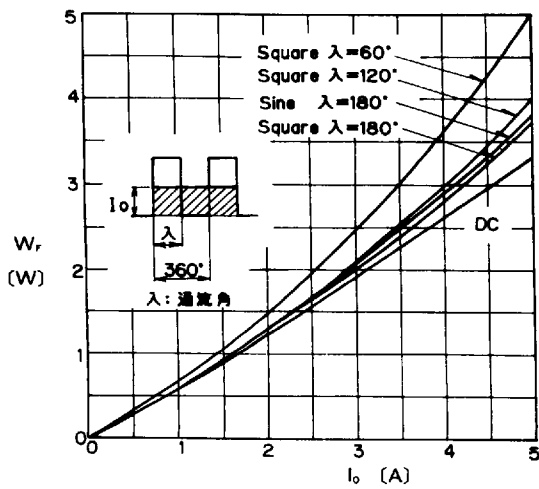
# YG811S09 (5A)



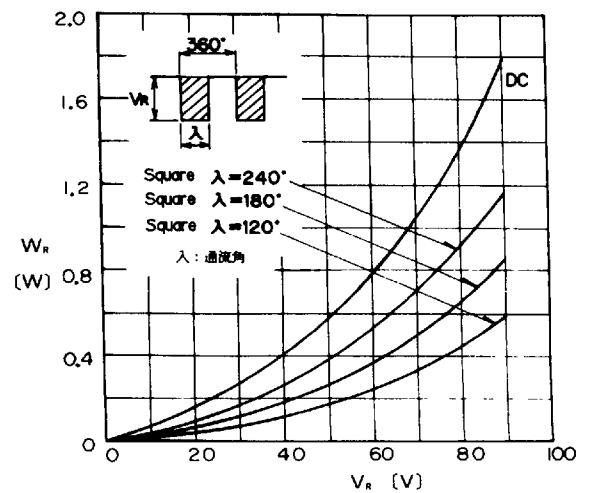
Forward Characteristics



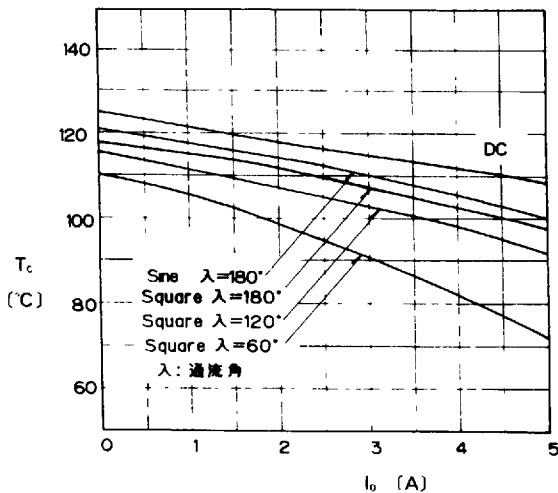
Reverse Characteristics



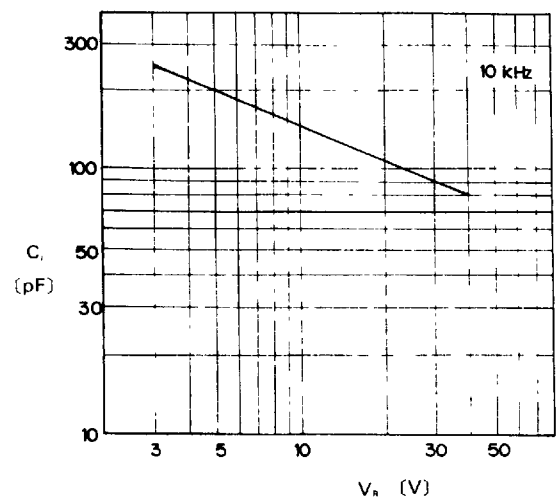
Forward Power Dissipation



Reverse Power Dissipation



Average Output Current-Case Temperature



Junction Capacitance Characteristics

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