

# YG811S04R (5A)

**(40V / 5A )**

## SCHOTTKY BARRIER DIODE

## ■ Features

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

## ■ Applications

- High speed power switching

### ■ Maximum ratings and characteristics

- Absolute maximum ratings

| Item                                | Symbol    | Conditions                        | Rating      | Unit |
|-------------------------------------|-----------|-----------------------------------|-------------|------|
| Repetitive peak reverse voltage     | $V_{RRM}$ |                                   | 40          | V    |
| Non-repetitive peak reverse voltage | $V_{RSM}$ | tw=500ns, duty=1/40               | 48          | V    |
| Isolating vltage                    | $V_{iso}$ | Terminals to Case,<br>AC. 1min.   | 1500        | V    |
| Average output current              | $I_o$     | Square wave, duty=1/2<br>Tc=122°C | 5           | A    |
| Surge current                       | $I_{FSM}$ | Sine wave<br>10ms                 | 120         | A    |
| Operating junction temperature      | $T_j$     |                                   | -40 to +150 | °C   |
| Storage temperature                 | $T_{stg}$ |                                   | -40 to +150 | °C   |

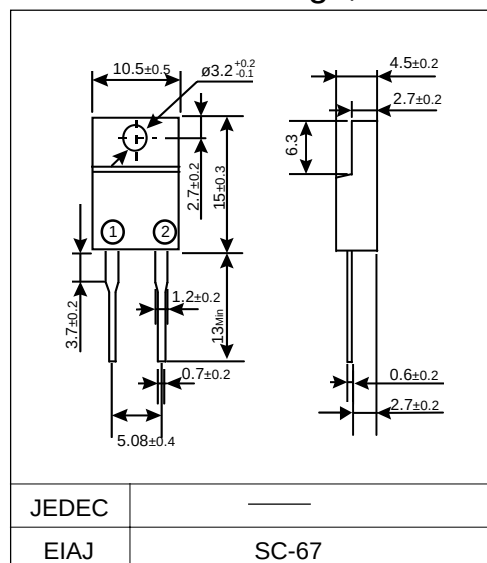
- Electrical characteristics (Ta=25°C Unless otherwise specified)

| Item                 | Symbol        | Conditions       | Max. | Unit          |
|----------------------|---------------|------------------|------|---------------|
| Forward voltage drop | $V_{FM}$      | $I_{FM}=5.0A$    | 0.55 | V             |
| Reverse current      | $I_{RRM}$     | $V_R=V_{RRM}$    | 5.0  | mA            |
| Thermal resistance   | $R_{th(j-c)}$ | Junction to case | 5.0  | $^{\circ}C/W$ |

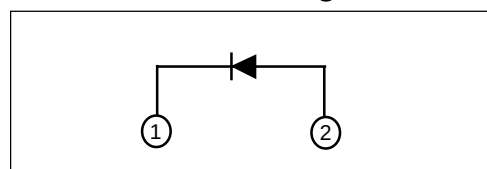
- Mechanical Characteristics

|                 |                    |            |     |
|-----------------|--------------------|------------|-----|
| Mounting torque | Recommended torque | 0.3 to 0.5 | N·m |
| Weight          |                    | 2.3        | g   |

■ Outline drawings, mm



■ Connection diagram



## Characteristics

