

# YG811S04R (5A)

(40V / 5A)

## SCHOTTKY BARRIER DIODE

### Features

- Insulated package by fully molding
- Low VF
- 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	$V_{RSM}$	$t_w=500\text{ns}$ , $\text{duty}=1/40$	48	V
Isolating voltage	$V_{iso}$	Terminals to Case, AC. 1min.	1500	V
Average output current	$I_o$	Square wave, $\text{duty}=1/2$ $T_c=122^\circ\text{C}$	5	A
Surge current	$I_{FSM}$	Sine wave 10ms	120	A
Operating junction temperature	$T_j$		-40 to +150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^\circ\text{C}$

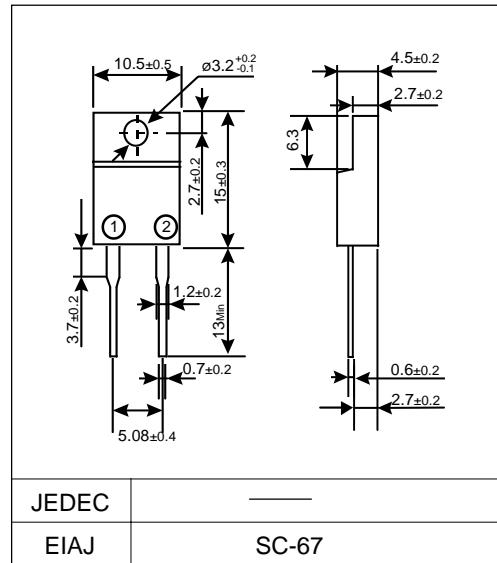
- Electrical characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=5.0\text{A}$	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	$^\circ\text{C/W}$

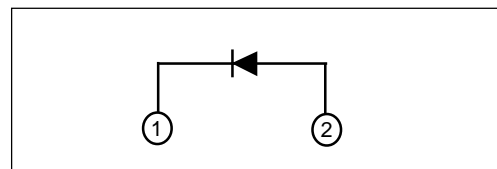
- Mechanical Characteristics

Mounting torque	Recommended torque	0.3 to 0.5	$\text{N}\cdot\text{m}$
Weight		2.3	g

### Outline drawings, mm



### Connection diagram



**Characteristics**

