

# YG805C06R

(60V / 20A TO-220F15)

## SCHOTTKY BARRIER DIODE

### Features

- 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	$V_{RRM}$		60	V
Repetitive peak surge reverse voltage	$V_{RSM}$	$t_w=500\text{ns}$ , $\text{duty}=1/40$	60	V
Isolating voltage	$V_{iso}$	Terminals to Case, AC, 1min.	1500	V
Average output current	$I_o$	$\text{duty}=1/2$ , $T_c=108^\circ\text{C}$ Square wave	20*	A
Suege 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	$^\circ\text{C}$

\* Out put current of centertap full wave connection.

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

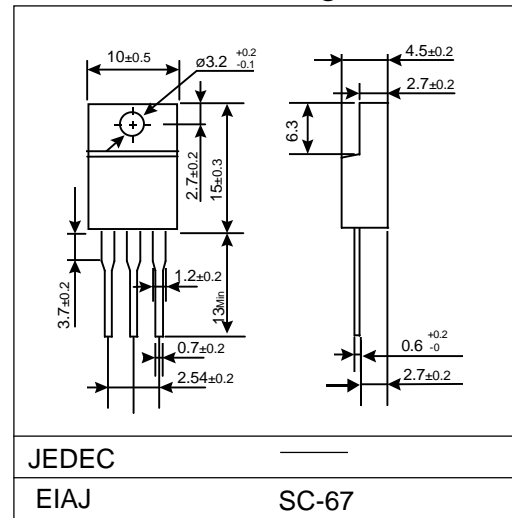
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	$V_F$	$I_F=8\text{A}$	0.58	V
Reverse current **	$I_R$	$V_R=V_{RRM}$	15	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.5	$^\circ\text{C/W}$

\*\* Rating per element

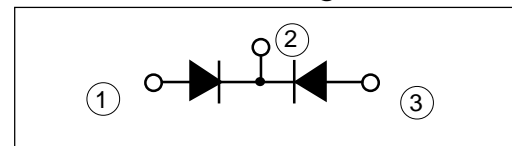
- Mechanical Characteristics

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

### Outline Drawings



### Connection Diagram



Characteristics

