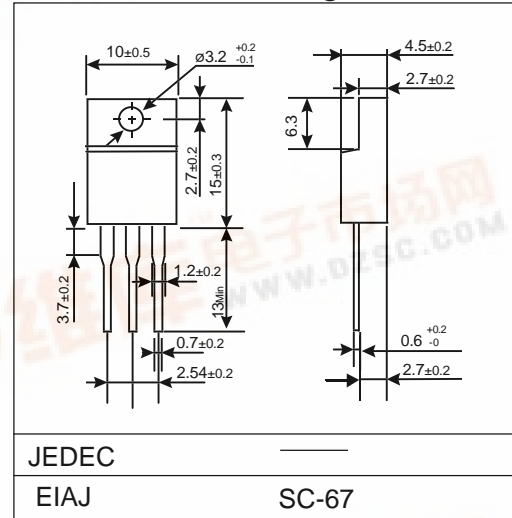


# YG835C03R

(30V / 20A TO-220F15)

## SCHOTTKY BARRIER DIODE

### Outline Drawings



### Features

- Low VF
- Super high speed switching.
- High reliability by planer design.

### Applications

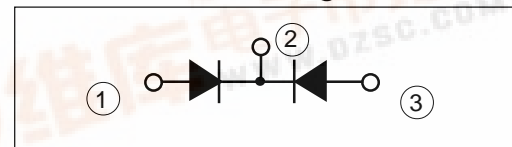
- High speed power switching.

### Maximum Ratings and Characteristics

- Absolute Maximum Ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		30	V
Repetitive peak surge reverse voltage	$V_{RSM}$	tw=500ns, duty=1/40	35 *1	V
Isolation voltage	$V_{iso}$	Terminals to Case, AC. 1min.	1500	V
Average output current	$I_o$	duty=1/2, Tc=108°C Square wave	20*	A
Surge current	$I_{FSM}$	Sine wave 10ms	120	A
Operating junction temperature	$T_j$		+150	°C
Storage temperature	$T_{stg}$		-40 to +150	°C

### Connection Diagram



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

\* Out put current of centertap full wave connection.

\*1 : Tentative

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	$V_F$	$I_F=6.0A$	0.45	V
Reverse current **	$I_R$	$V_R=V_{RRM}$	15.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.5	°C/W

\*\* Rating per element

- Mechanical Characteristics

Item	Symbol	Conditions	Rating	Unit
Mounting torque		Recommended torque	0.3 to 0.5	N · m



**Characteristics**

