

YG831C03R

(30V / 6A TO-220F15)

SCHOTTKY BARRIER DIODE

■ 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}	t _w =500ns, duty=1/40	30	V
Isolating voltage	V _{iso}	Terminals to Case, AC. 1min.	1500	V
Average output current	I _o	duty=1/2, T _c =127°C Square wave	6*	A
Surge current	I _{FSM}	Sine wave 10ms	90	A
Operating junction temperature	T _j		+150	°C
Storage temperature	T _{stg}		-40 to +150	°C

* Out put current of centertap full wave connection.

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

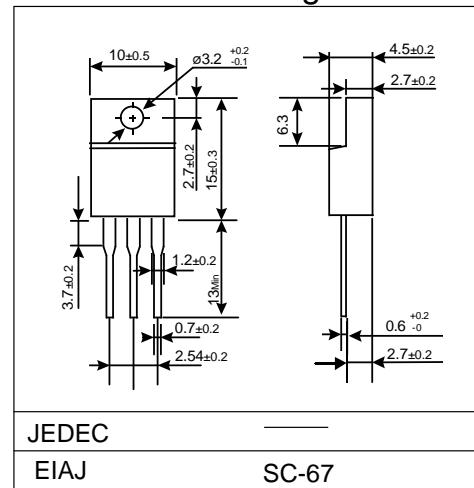
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	V _F	I _F =2.0A	0.45	V
Reverse current **	I _R	V _R =V _{RRM}	5.0	mA
Thermal resistance	R _{th(j-c)}	Junction to case	5.0	°C/W

** Rating per element

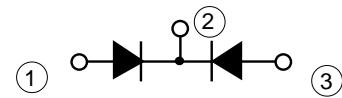
- Mechanical Characteristics

Mounting torque	Recommended torque	0.3 to 0.5	N · m
Weight		2.0	g

■ Outline Drawings

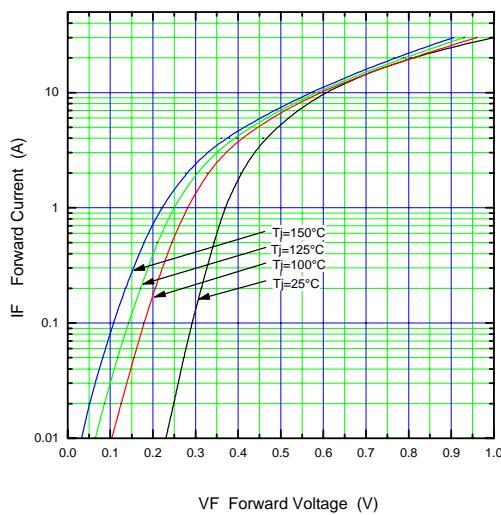


■ Connection Diagram

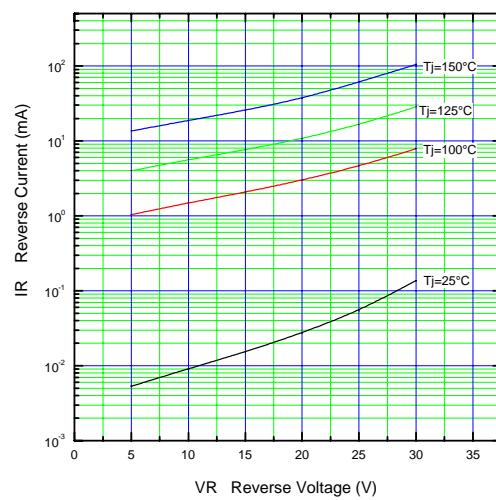


■ Characteristics

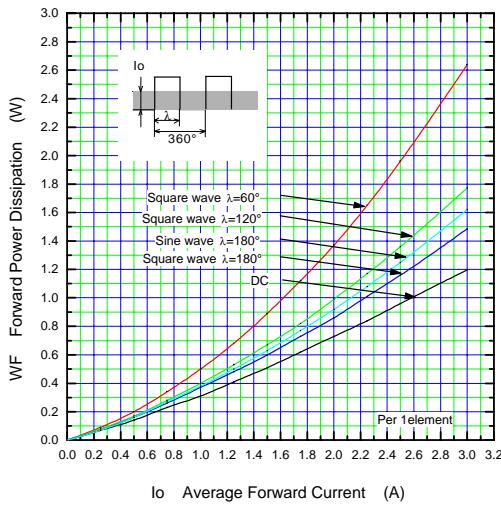
Forward Characteristic (typ.)



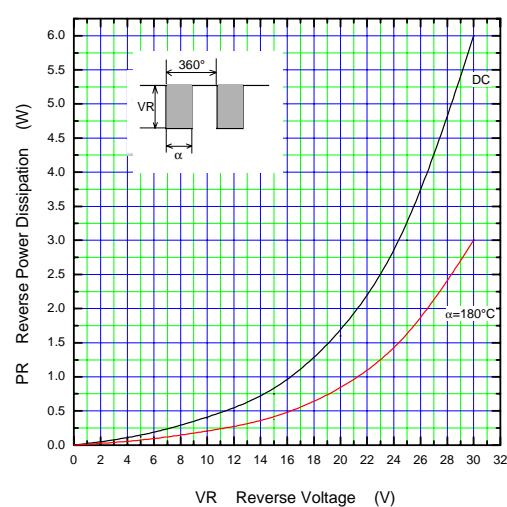
Reverse Characteristic (typ.)



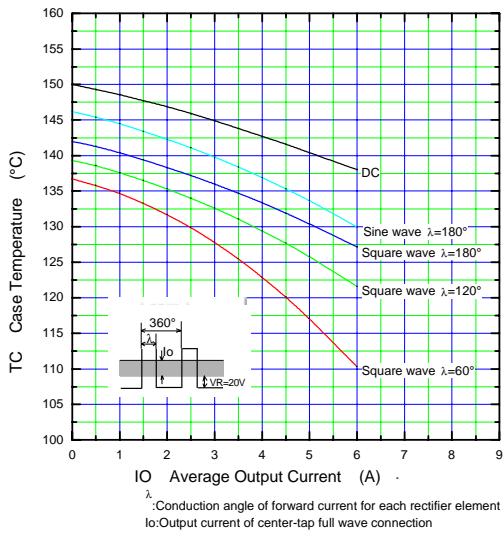
Forward Power Dissipation



Reverse Power Dissipation



Current Derating (Io-Tc)



Junction Capacitance Characteristic (typ.)

