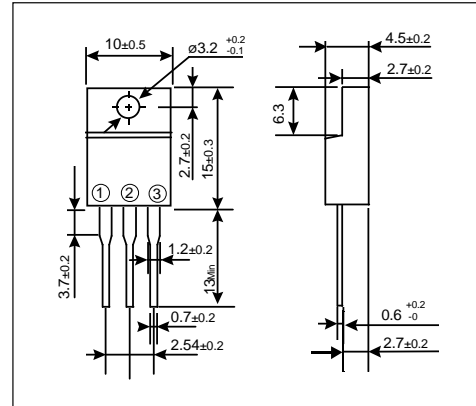


YG831C04R

(40V / 6A TO-220F15)

SCHOTTKY BARRIER DIODE

Outline Drawings

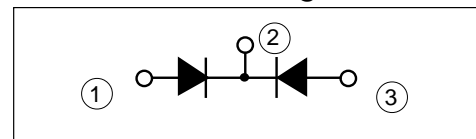


JEDEC

EIAJ

SC-67

Connection Diagram



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}		40	V
Repetitive peak surge reverse voltage	V_{RSM}	$t_w=500ns, duty=1/40$	40	V
Isolating voltage	V_{iso}	Terminals to Case, AC. 1min.	1500	V
Average output current	I_o	$duty=1/2, T_c=122^\circ C$ Square wave	6*	A
Suege current	I_{FSM}	Sine wave 10ms	80	A
Operating junction temperature	T_j		+150	$^\circ C$
Storage temperature	T_{stg}		-40 to +150	$^\circ C$

* Out put current of centertap full wave connection.

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

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	V_F	$I_F=2.0A$	0.53	V
Reverse current **	I_R	$V_R=V_{RRM}$	2.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	5.0	$^\circ C/W$

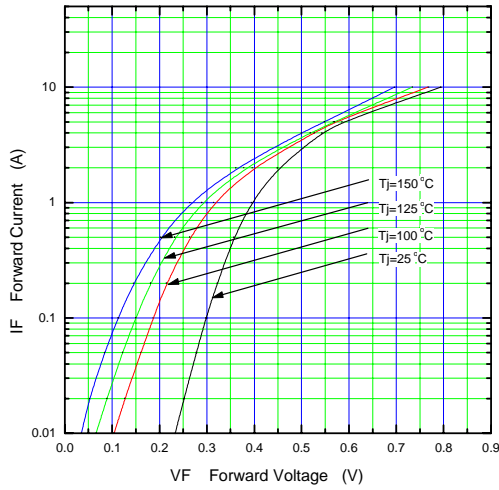
** Rating per element

- Mechanical Characteristics

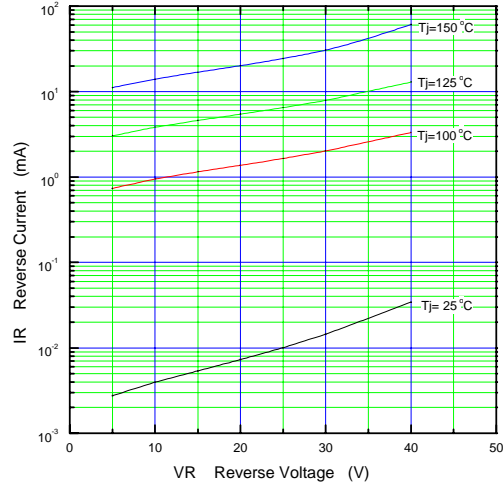
Mounting torque	Recommended torque	0.3 to 0.5	N · m
Weight		2.3	g

Characteristics

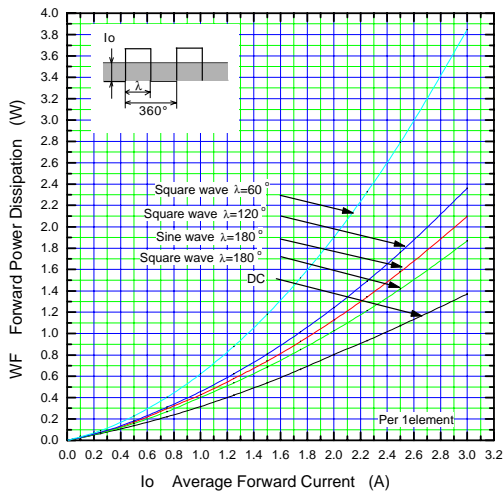
Forward Characteristic (typ.)



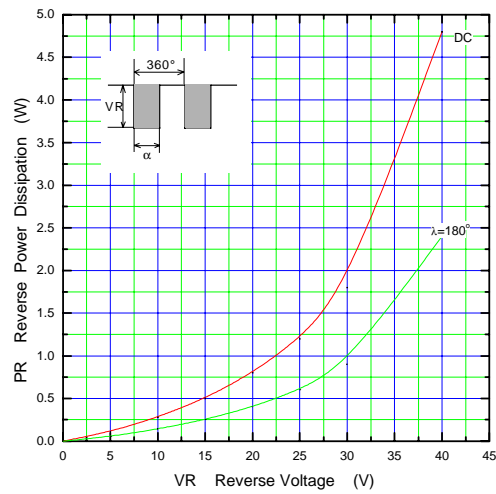
Reverse Characteristic (typ.)



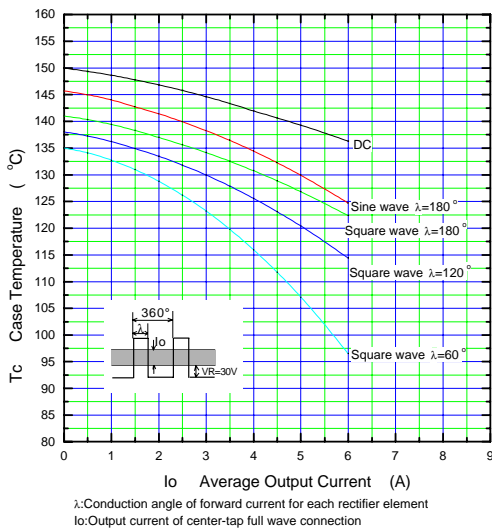
Forward Power Dissipation



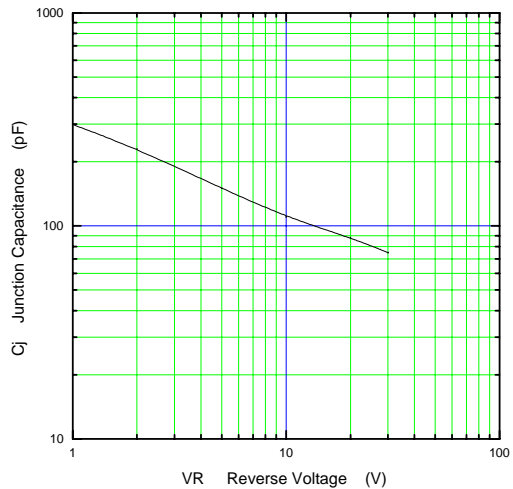
Reverse Power Dissipation



Current Derating (Io-Tc)

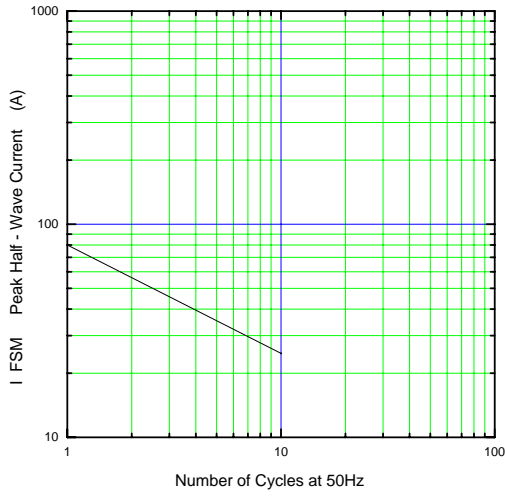


Junction Capacitance Characteristic (typ.)



λ: Conduction angle of forward current for each rectifier element
Io: Output current of center-tap full wave connection

Surge Capability



Transient Thermal Impedance

