

# YG832C03R

(30V / 10A 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	$V_{RSM}$	$t_w=500\text{ns}, \text{duty}=1/40$	35 * <sub>1</sub>	V
Isolation voltage	$V_{iso}$	Terminals to Case, AC. 1min.	1500	V
Average output current	$I_o$	duty=1/2, $T_c=122^\circ\text{C}$ Square wave	10*	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

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

\* Out put current of centertap full wave connection.

\*<sub>1</sub> : Tentative

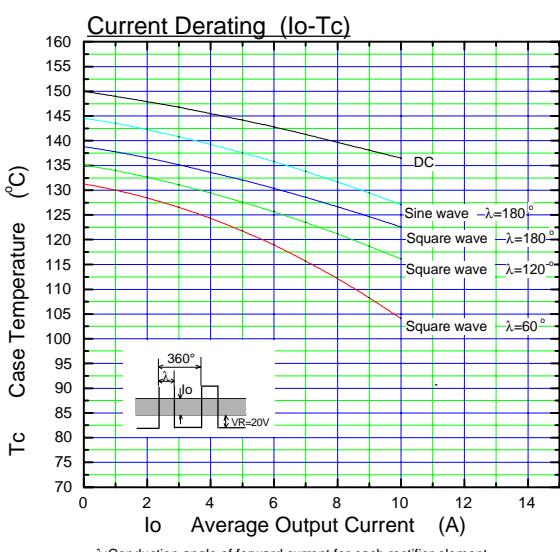
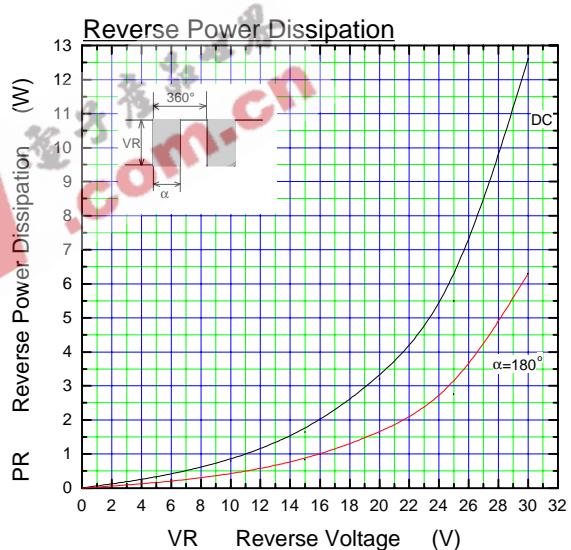
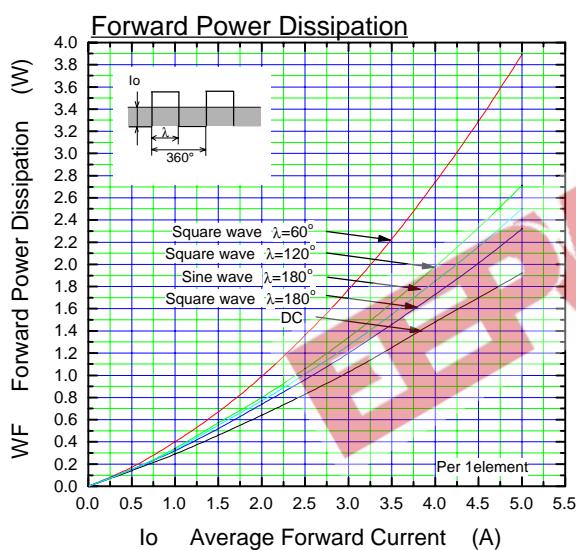
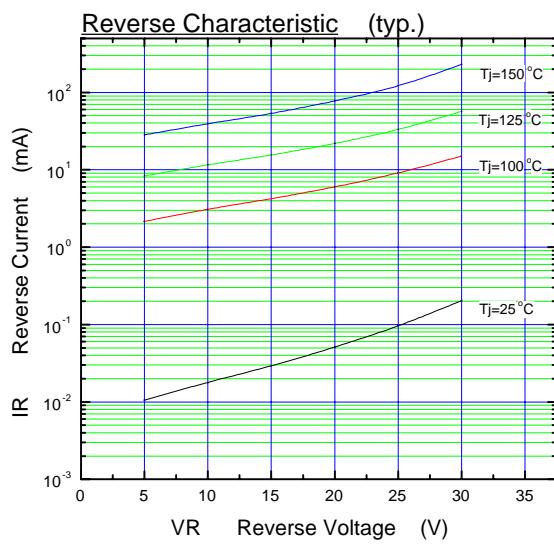
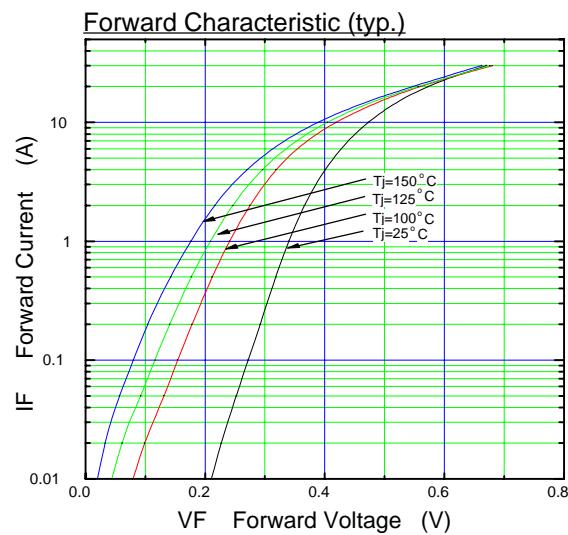
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	$V_F$	$I_F=4.0\text{A}$	0.45	V
Reverse current **	$I_R$	$V_R=V_{RRM}$	5.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5	°C/W

\*\* Rating per element

#### • Mechanical Characteristics

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

## ■ Characteristics



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

