

# YG862C12R (10A)

(120V / 10A)

[0401]

## High Voltage Schottky barrier diode

### Major characteristics

Characteristics	YG862C12R	Units	Condition
$V_{RRM}$	120	V	
$V_F$	0.88	V	$T_c=25^\circ\text{C MAX.}$
$I_o$	10	A	

### Features

- Low  $V_F$
- High Voltage
- Center tap connection
- High frequency operation
- DC-DC converters
- AC adapter

### Applications

### Maximum ratings and characteristics

- Absolute maximum ratings (at  $T_c=25^\circ\text{C}$  Unless otherwise specified )

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	$V_{RSM}$	$tw=500\text{ns}$ , duty=1/40	120	V
Repetitive peak reverse voltage	$V_{RRM}$		120	V
Isolating voltage	$V_{iso}$	Terminals-to-Case, AC.1min	1500	V
Average output current	$I_o$	Square wave, duty=1/2 $T_c=122^\circ\text{C}$	10 *	A
Non-repetitive surge current **	$I_{FSM}$	Sine wave 10ms 1shot	75	A
Operating junction temperature	$T_j$		+150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^\circ\text{C}$

\* Out put current of center tap full wave connection

\*\*Rating per element

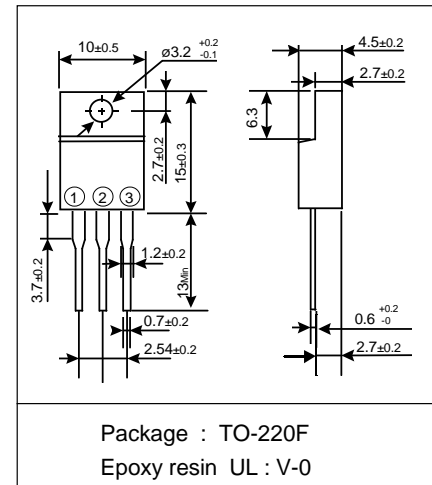
- Electrical characteristics (at  $T_c=25^\circ\text{C}$  Unless otherwise specified )

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_F$	$I_{FM}=10\text{A}$	0.88	V
Reverse current	$I_R$	$V_R=V_{RRM}$	150	$\mu\text{A}$
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.0	$^\circ\text{C/W}$

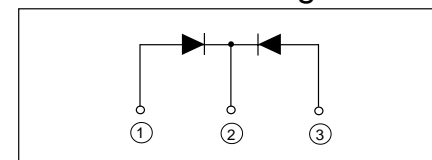
- Mechanical characteristics

Mounting torque	Recommended torque	0.3 to 0.5	N·m
Approximate mass		2	g

### Outline drawings, mm

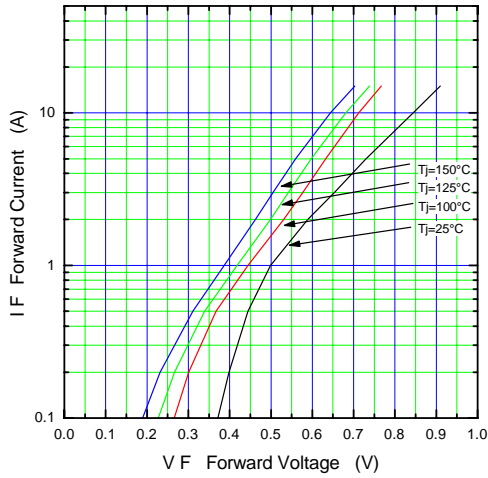


### Connection diagram

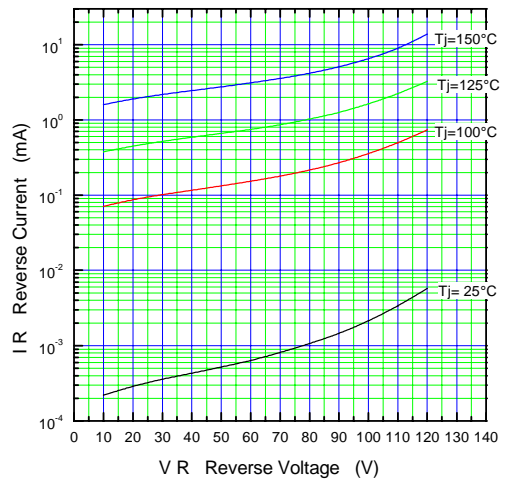


■ Characteristics

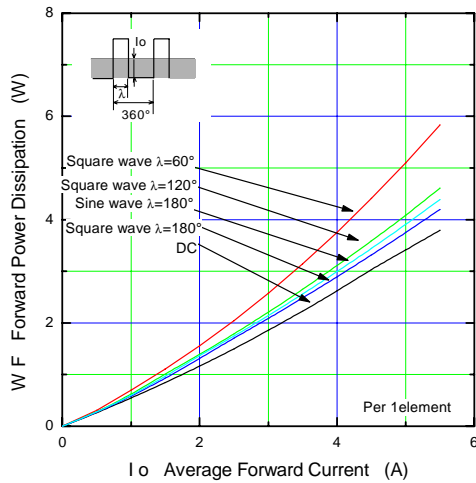
Forward Characteristic (typ.)



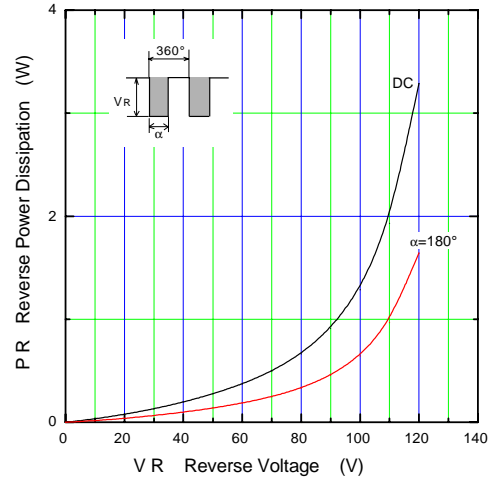
Reverse Characteristic (typ.)



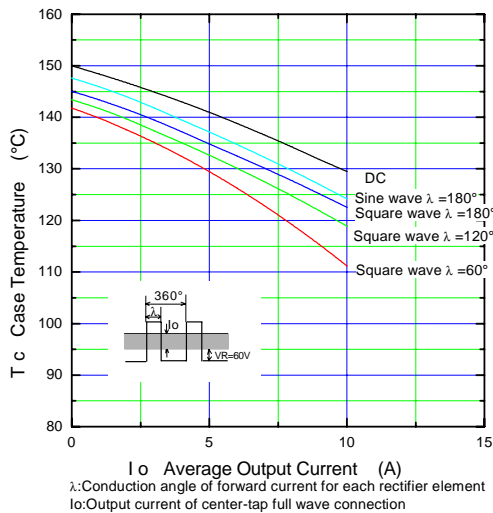
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)



Current Derating (Io-Tc) (max.)



Junction Capacitance Characteristic (max.)

