

YA862C12R (10A)

(120V / 10A)

[0401]

High Voltage Schottky barrier diode

■ Major characteristics

Characteristics	YA862C12R	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

■ Applications

- High frequency operation
- DC-DC converters
- AC adapter

Maximum ratings and characteristics

- Absolute maximum ratings (at Tc=25°C Unless otherwise specified)

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V_{RSM}	tw=500ns, duty=1/40	120	V
Repetitive peak reverse voltage	V_{RRM}		120	V
Average output current	I_o	Square wave, duty=1/2 Tc=137°C	10 *	A
Non-repetitive surge current **	I_{FSM}	Sine wave 10ms 1shot	75	A
Operating junction temperature	T_j		+150	°C
Storage temperature	T_{stg}		-40 to +150	°C

* Out put current of center tap full wave connection

**Rating per element

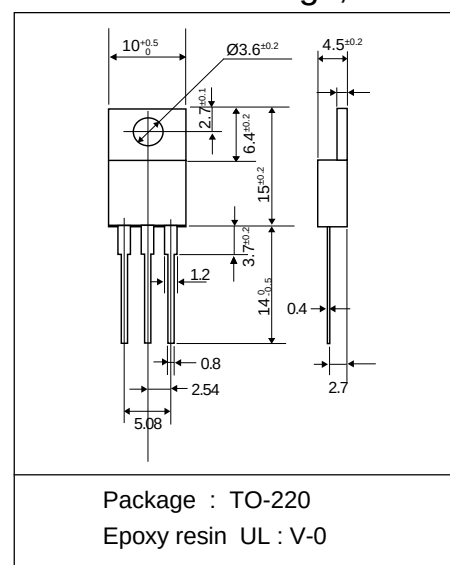
- Electrical characteristics (at Tc=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_F	$I_{FM}=10A$	0.88	V
Reverse current	I_R	$V_R=V_{RRM}$	150	μA
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.2	$^{\circ}C/W$

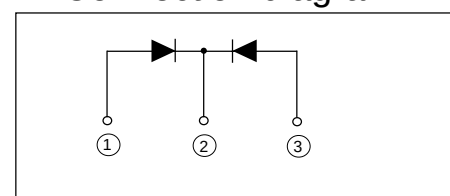
- Mechanical characteristics

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

■ Outline drawings, mm

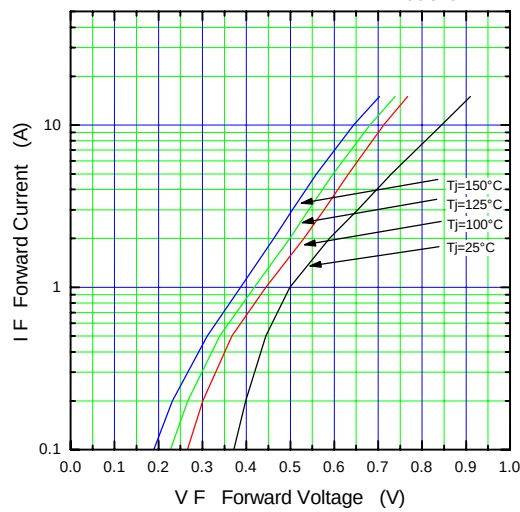


■ Connection diagram

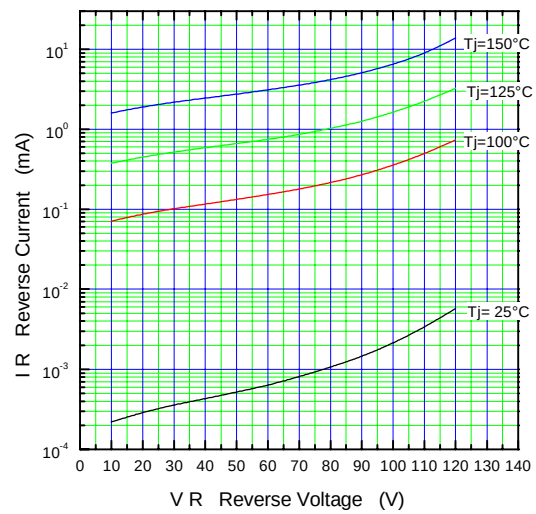


■ Characteristics

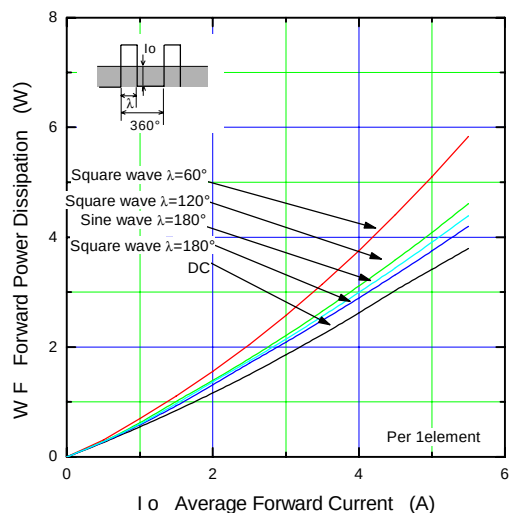
Forward Characteristic (typ.)



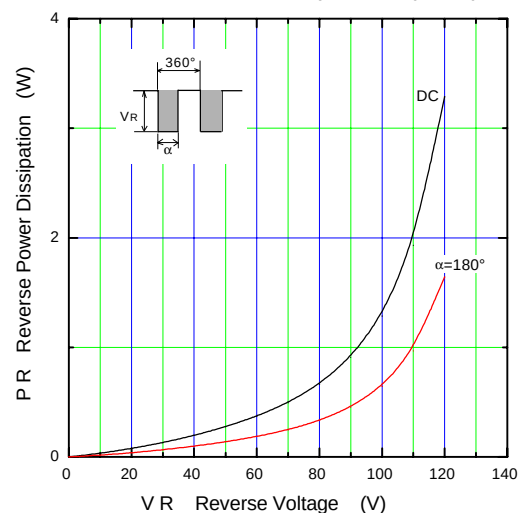
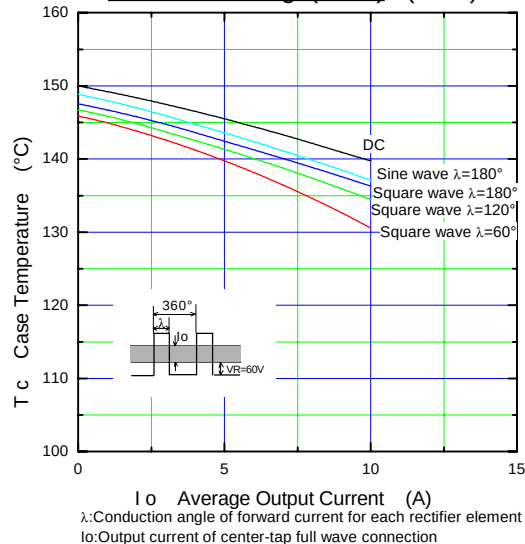
Reverse Characteristic (typ.)



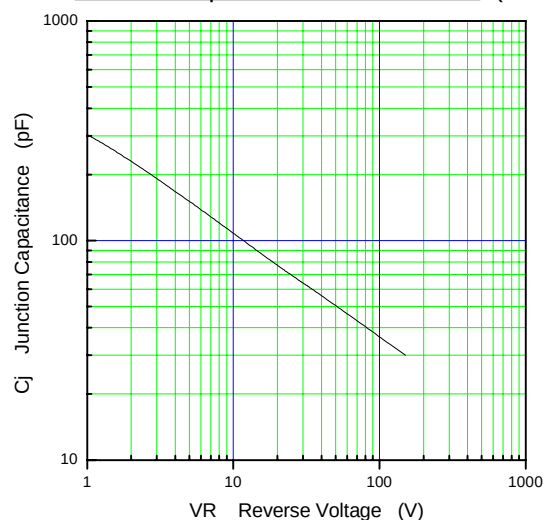
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

Current Derating (I_o - T_c) (max.)

Junction Capacitance Characteristic (max.)



(120V / 10A)

YA862C12R (10A)

