

# YA875C12R (120V, 20A)

## FUJI Diode

## Ultra Low IR Schottky Barrier Diode

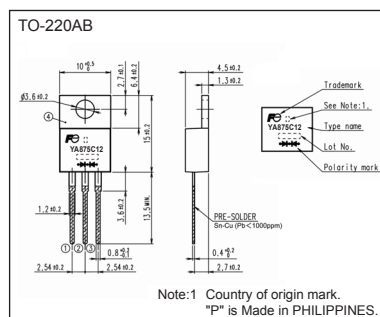
## ■ Features

- Ultra Low IR
- Low  $V_F$
- $T_j \text{ MAX} = 175^\circ\text{C}$
- High reliability at higher temperatures

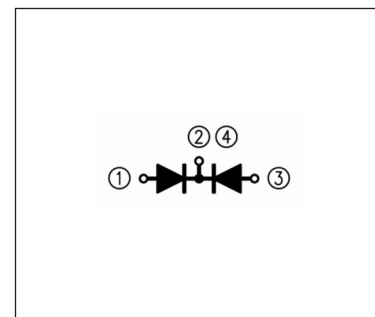
## ■ Applications

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

### ■ Outline Drawings [mm]



### ■ Connection diagram



### ■ Maximum Ratings and Characteristics

● Maximum ratings (at Ta=25°C Unless otherwise specified)

Item	Symbols	Conditions	Ratings	Units
Repetitive peak reverse voltage	$V_{RRM}$		120	V
Average output current	$I_o$	50Hz Square wave duty =1/2 $T_c = 144^{\circ}C$	20 *	A
Non-repetitive surge current **	$I_{FSM}$	Sine wave, 10ms 1shot	145	A
Operating junction temperature	$T_j$		175	$^{\circ}C$
Storage temperature	$T_{stg}$		-40 to +175	$^{\circ}C$

\*Out put current of center tap full wave connection.

\*\*Rating per element

● Electrical characteristics (at Ta=25°C Unless otherwise specified)

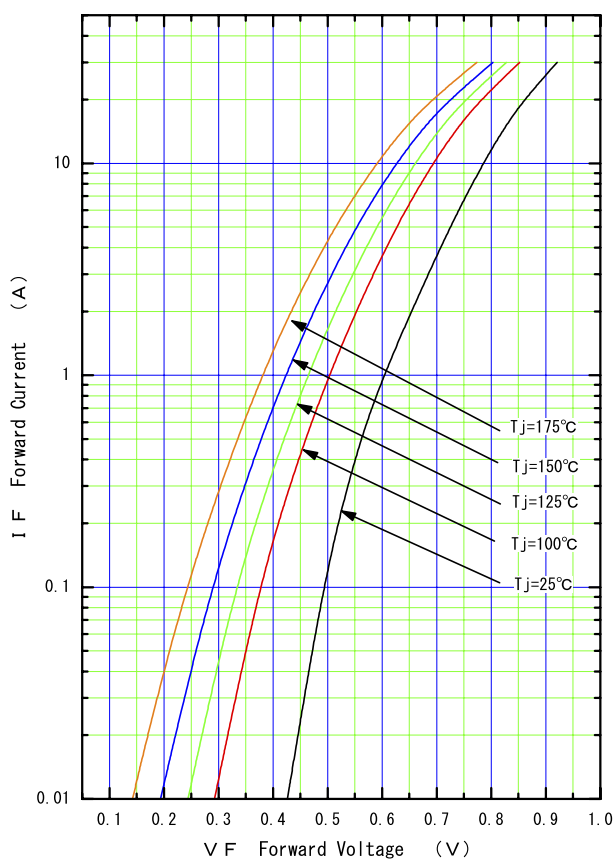
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	V <sub>F</sub>	I <sub>F</sub> = 10 A	0.88	V
Reverse current†***	I <sub>R</sub>	V <sub>R</sub> =V <sub>RRM</sub>	20	μA
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case	1.75	°C/W

\*\*\*Rating per element

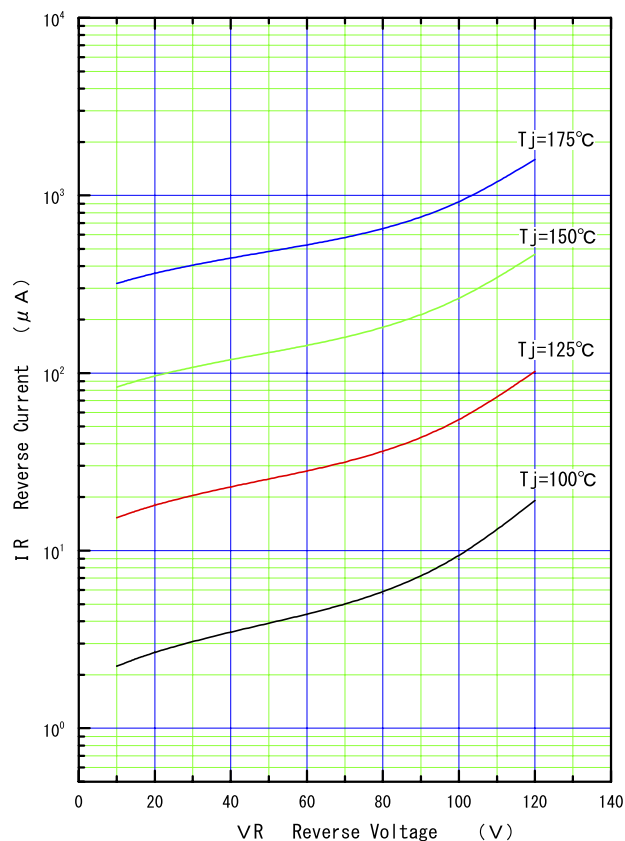
### ● Mechanical characteristics

Item	Conditions	Ratings	Units
Mounting torque	Recommended torque	0.3 to 0.5	N•m
Approximate mass		2.0	g

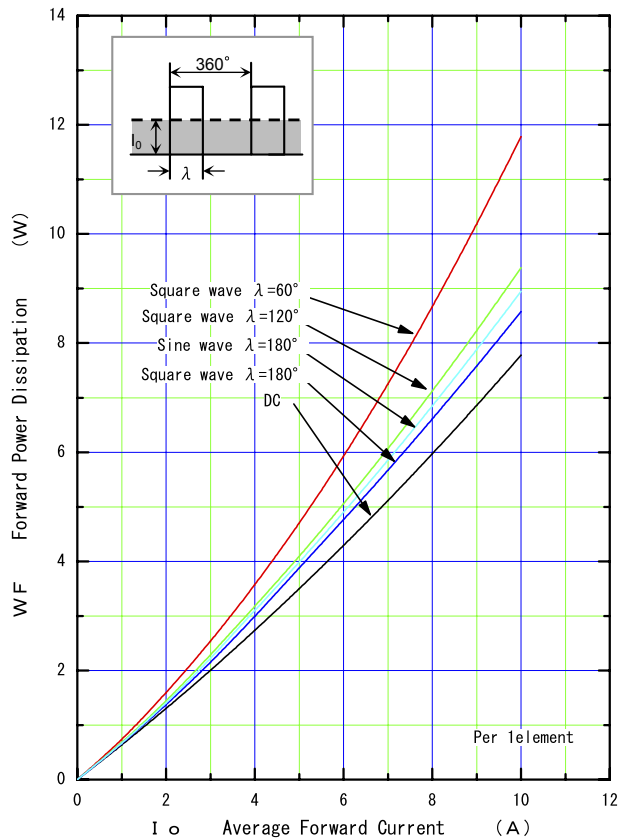
Forward Characteristic (typ.)



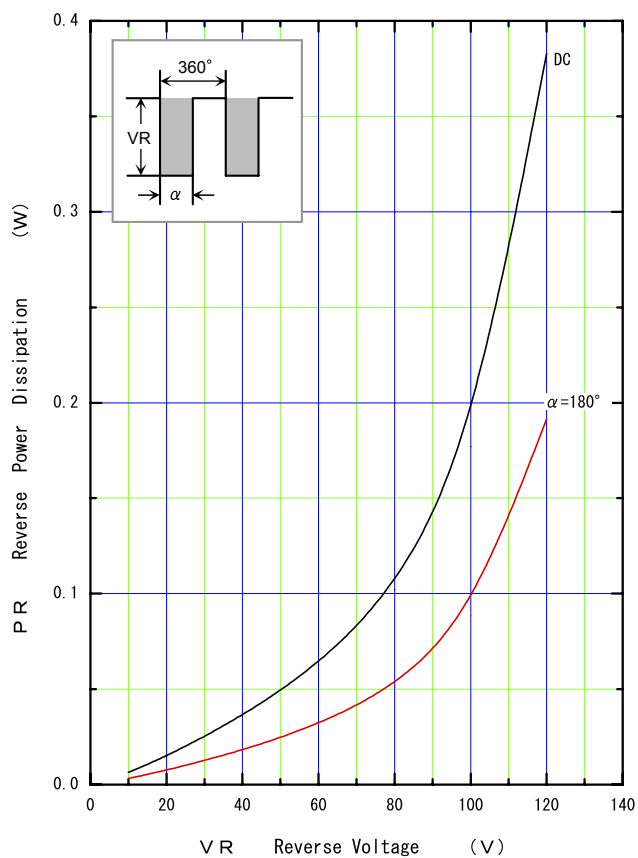
Reverse Characteristic (typ.)

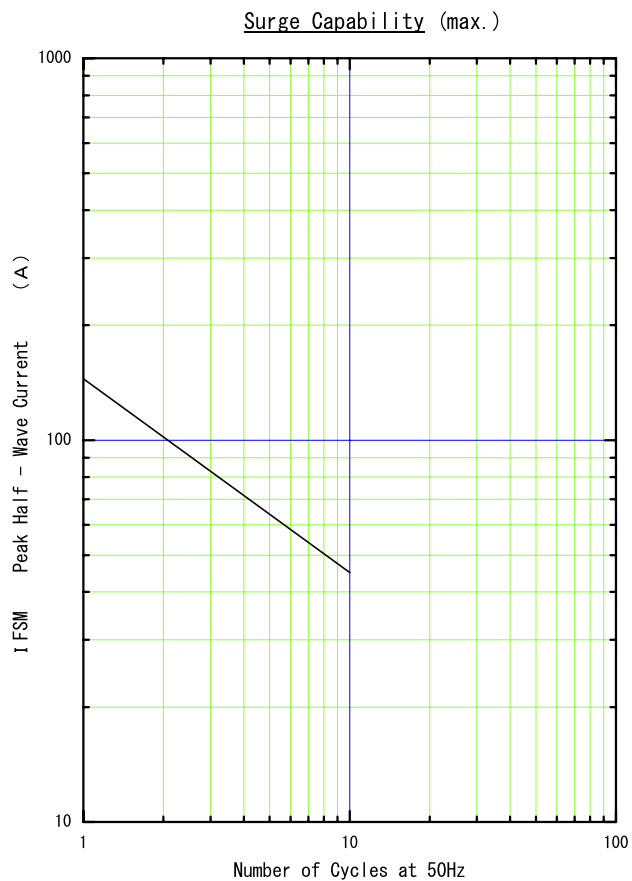
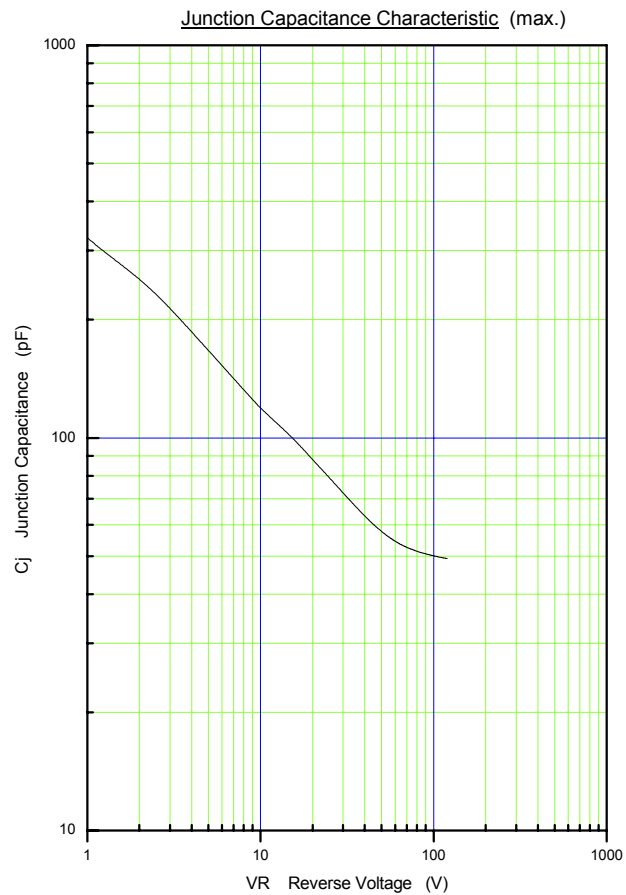
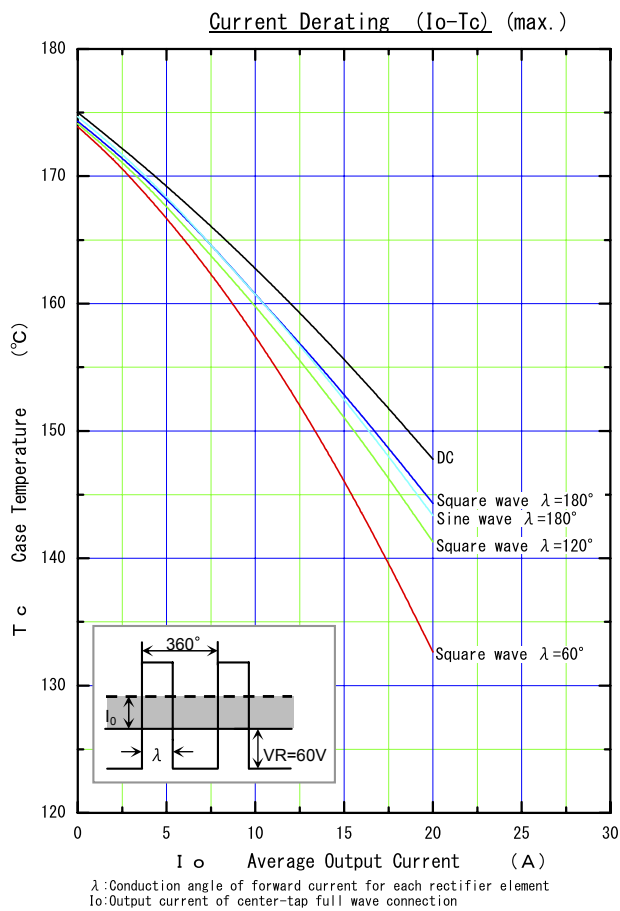


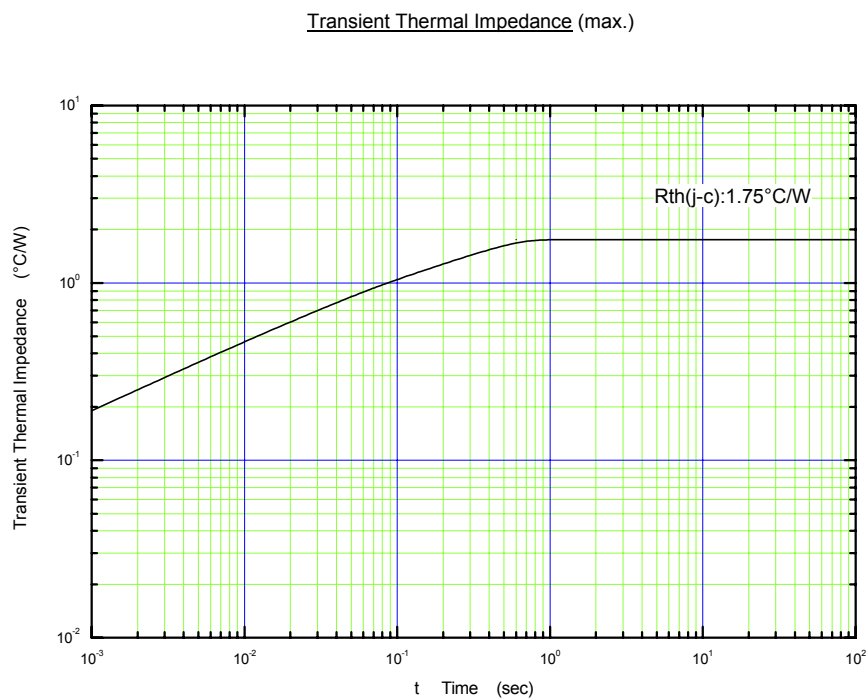
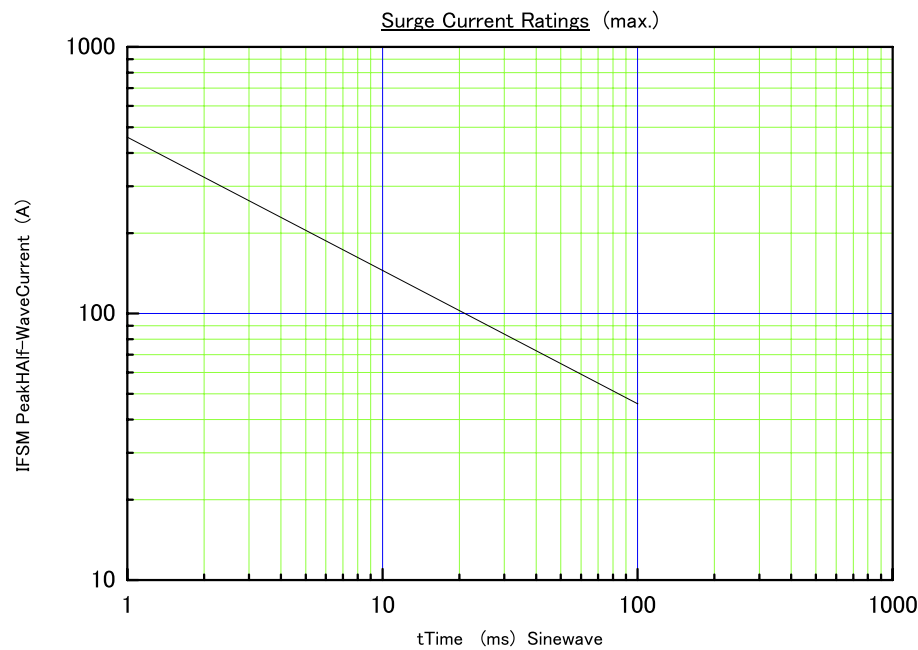
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)







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