

# YA878C10R (100V, 30A)

#### FUJI Diode

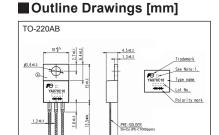
## **Ultra Low IR Schottky Barrier Diode**

#### Features

- Ultra Low IR
- Low VF
- Tj MAX = 175°C
- · High reliability at higher temperatures

#### Applications

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

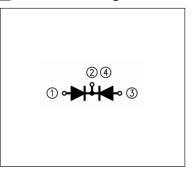


Note:1

0.4 \*8.2

Country of origin mark. "P" is Made in PHILIPPINES.

#### Connection diagram



#### Maximum Ratings and Characteristics

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

Item	Symbols	Conditions	Ratings	Units
Repetitive peak reverse voltage	Vrrm		100	V
Average output current	lo	50Hz Square wave duty =1/2 Tc =142°C	30 *	A
Non-repetitive surge current **	IFSM	Sine wave, 10ms 1shot	160	A
Operating junction temperature	Tj		175	°C
Storage temperature	Tstg		-40 to +175	°C

).8:81

2.54 10.2

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

\*\*Rating per element

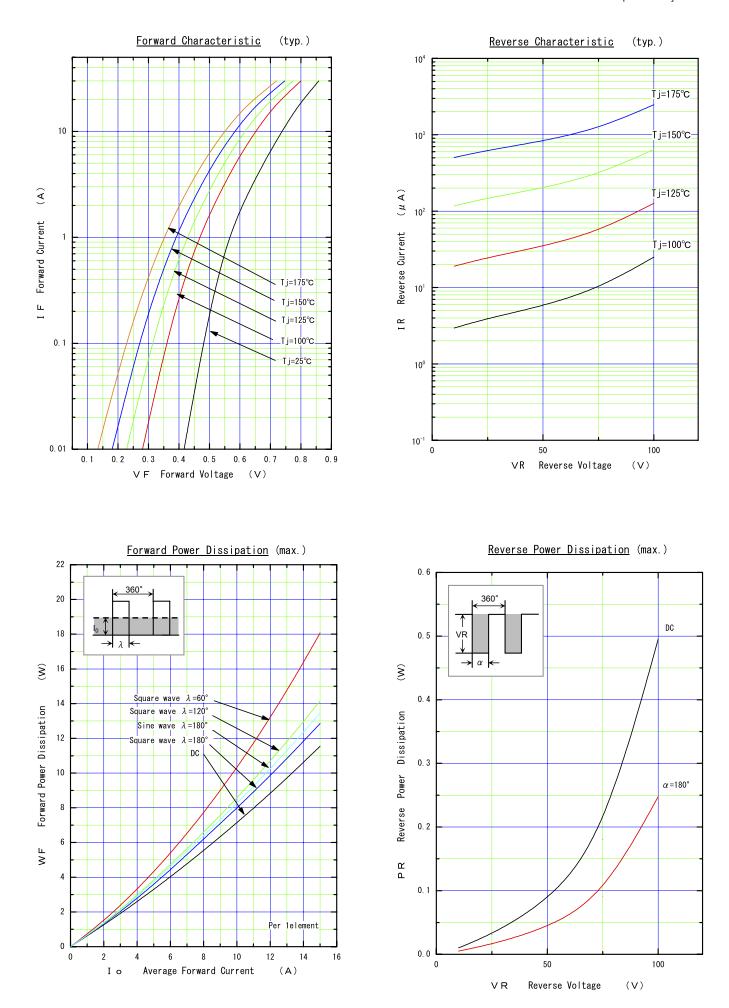
#### • Electrical characteristics (at Ta=25°C Unless otherwise specified)

Item	Symbols	Conditions	Maximum	Units
Forward voltage***	VF	I⊧ = 15 A	0.86	V
Reverse current***	IR	V <sub>R</sub> =V <sub>RRM</sub>	30	μA
Thermal resistance	Rth(j-c)	Junction to case	1.25	°C/W

\*\*\*Rating per element

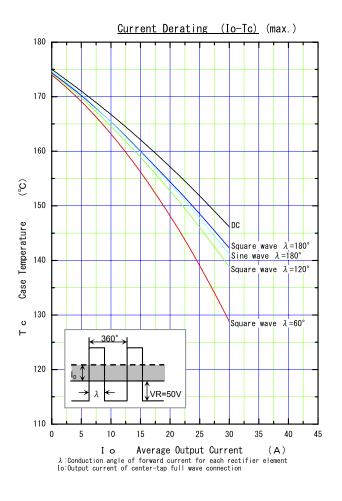
#### Mechanical characteristics

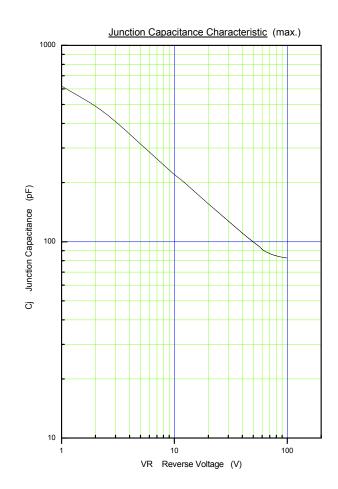
Item	Conditions	Ratings	Units
Mounting torque	Recommended torque	0.3 to 0.5	N•m
Approximate mass		2.0	g



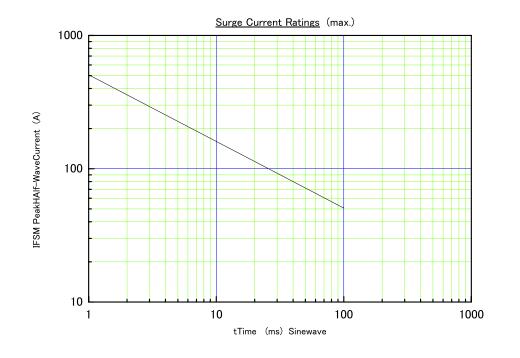
FUJI Diode

http://www.fujisemi.com

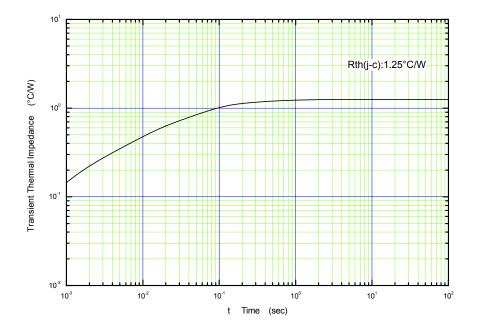




Surge Capability (max.)



Transient Thermal Impedance (max.)



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