

# MS865C15 (150V, 20A)

FUJI Diode

## Low IR Schottky Barrier Diode

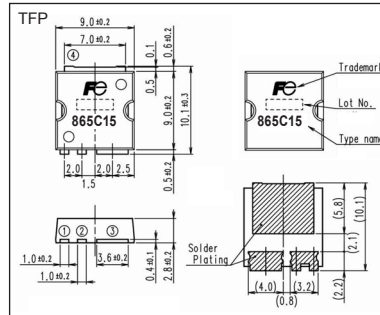
### ■ Features

- Low IR
- Low  $V_F$
- Center tap connection

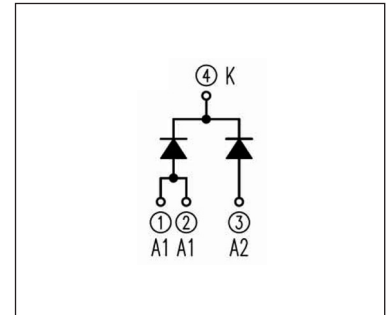
### ■ Applications

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

### ■ Outline Drawings [mm]



### ■ Connection diagram



### ■ Maximum Ratings and Characteristics

#### ● Maximum ratings (at $T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbols	Conditions	Ratings	Units
Repetitive peak reverse voltage	$V_{RRM}$		150	V
Average output current	$I_o$	Square wave duty = 1/2 $T_c = 115^{\circ}\text{C}$	20 *	A
Non-repetitive surge current **	$I_{FSM}$	Sine wave, 10ms 1shot	150	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 $T_a=25^{\circ}\text{C}$ Unless otherwise specified)

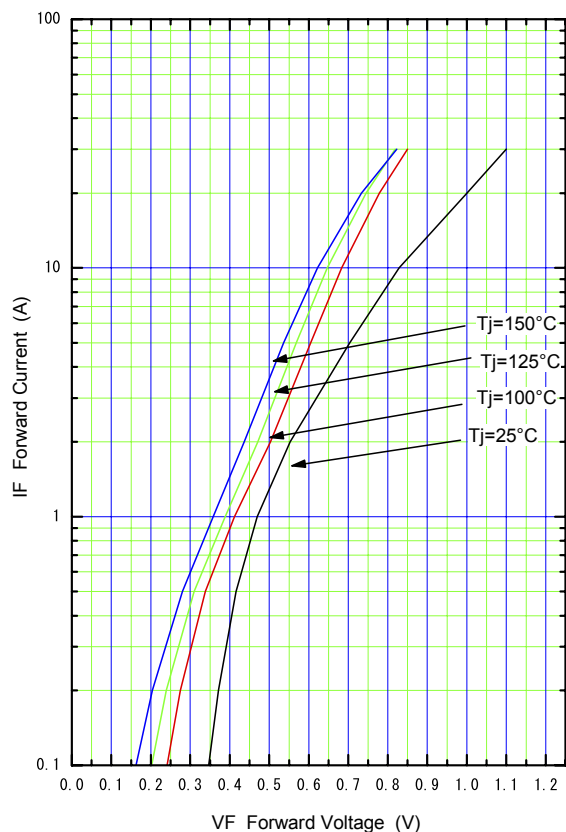
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	$V_F$	$I_F = 10\text{ A}$	0.90	V
Reverse current***	$I_R$	$V_R = V_{RRM}$	150	$\mu\text{A}$
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.25	$^{\circ}\text{C/W}$

\*\*\*Rating per element

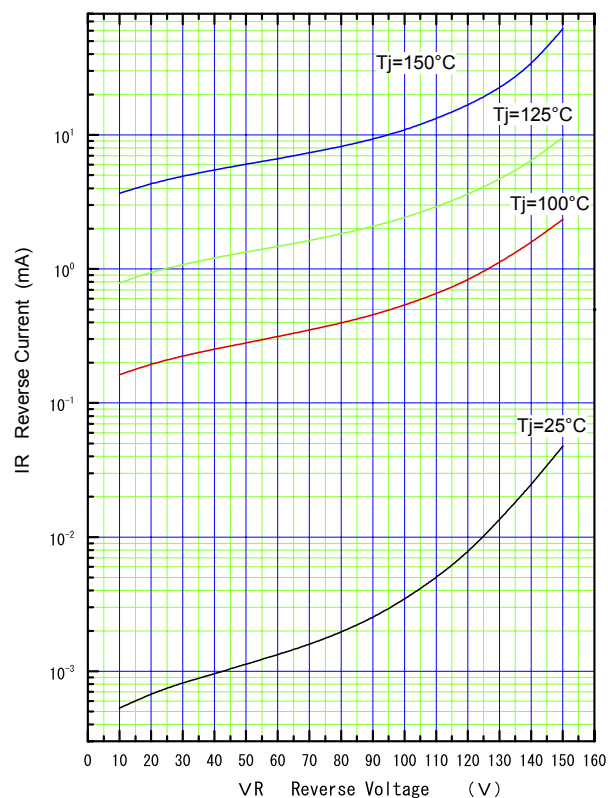
#### ● Mechanical characteristics

Item	Conditions	Ratings	Units
Approximate mass		0.8	g

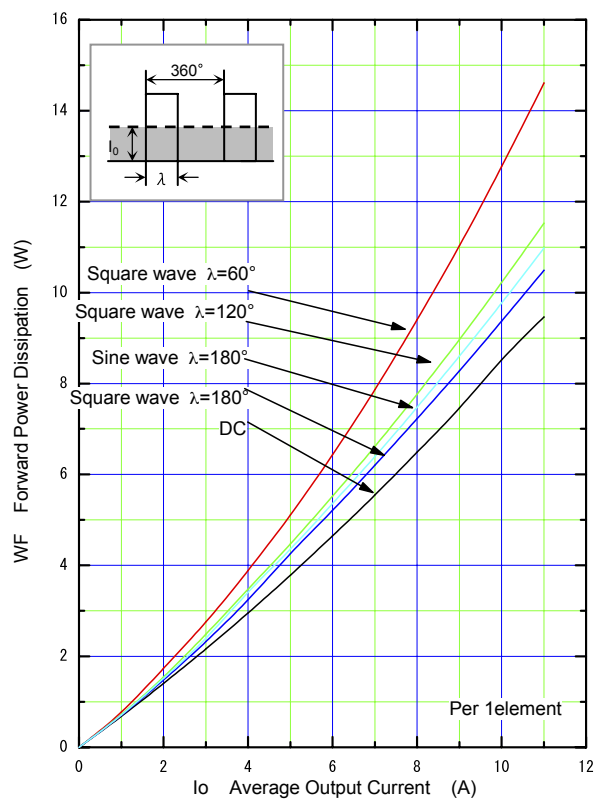
Forward Characteristic (typ.)



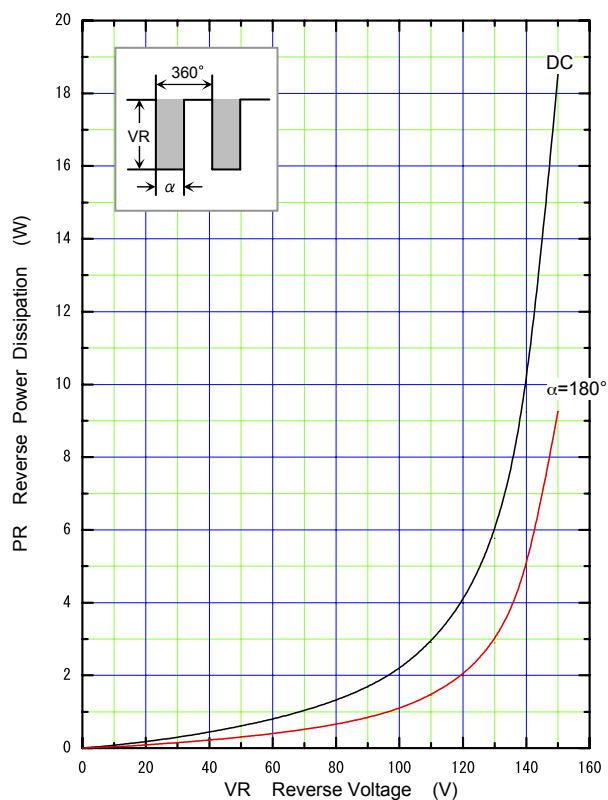
Reverse Characteristic (typ.)

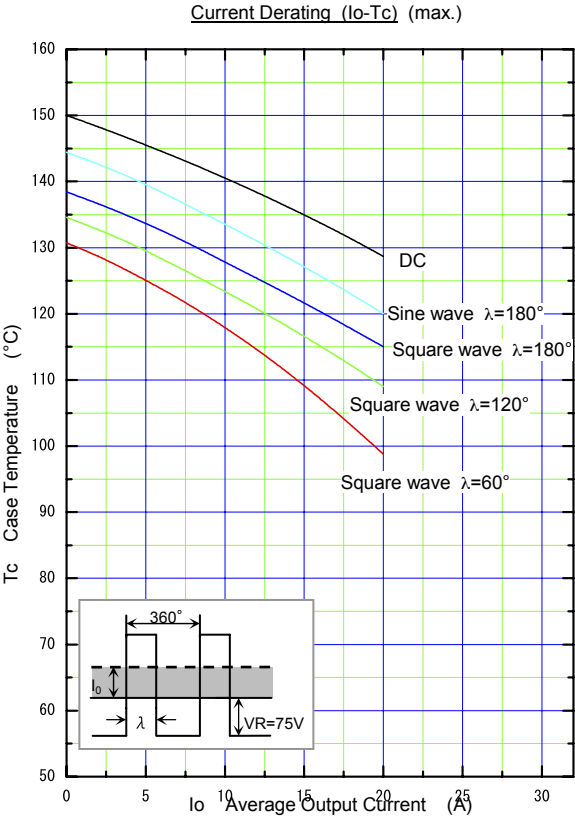


Forward Power Dissipation (max.)

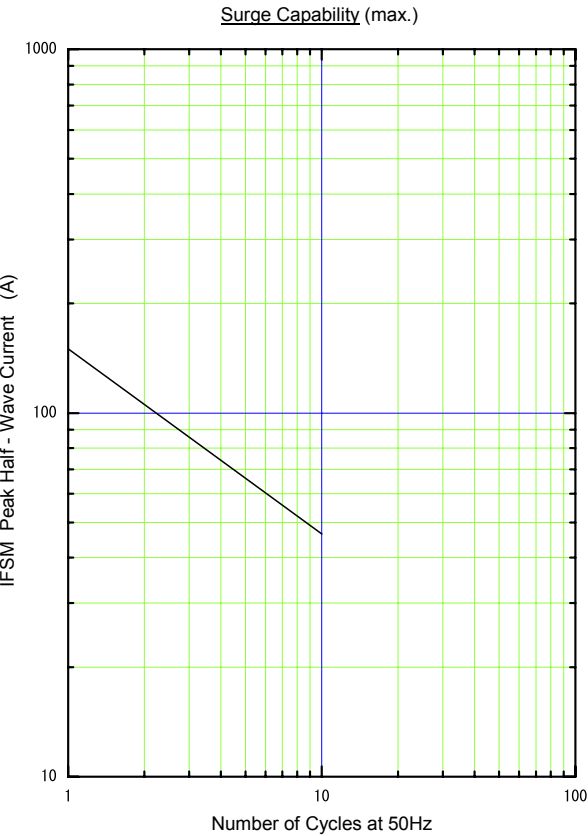
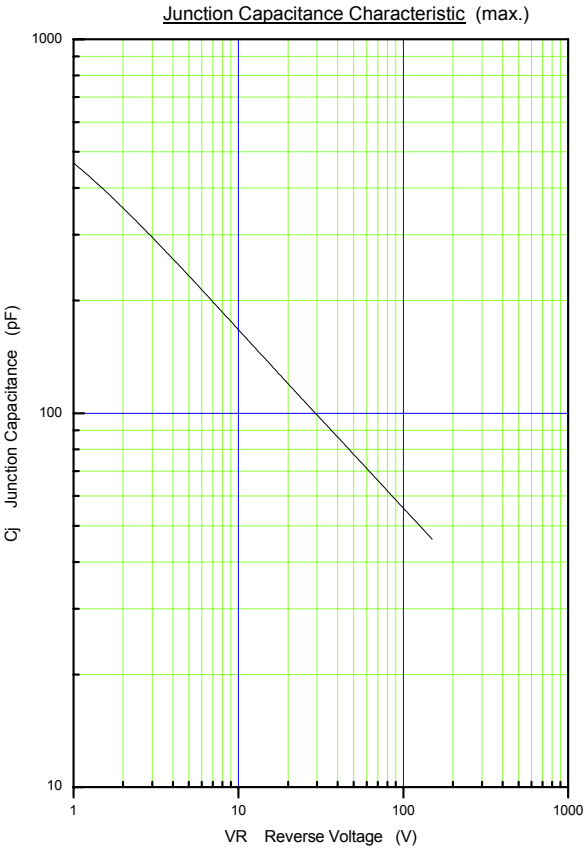


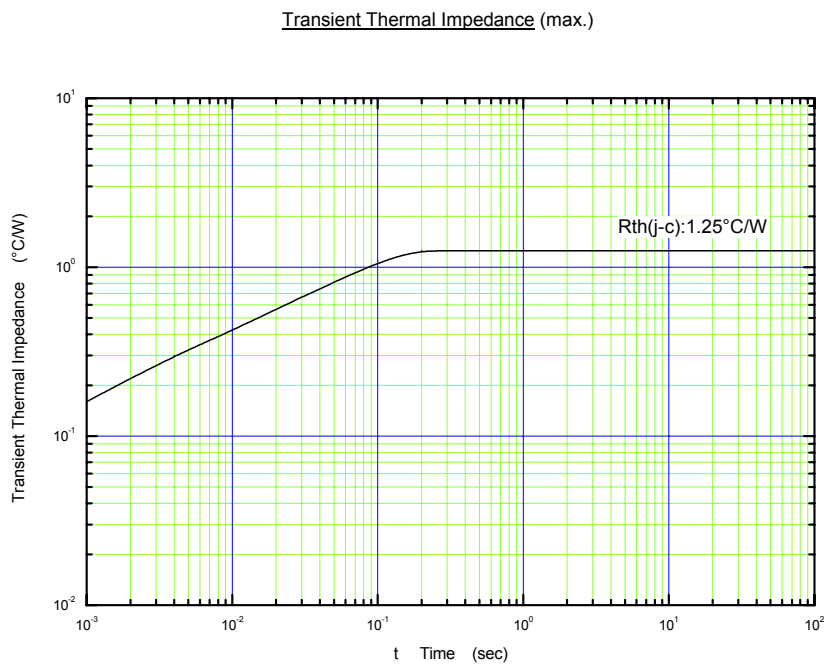
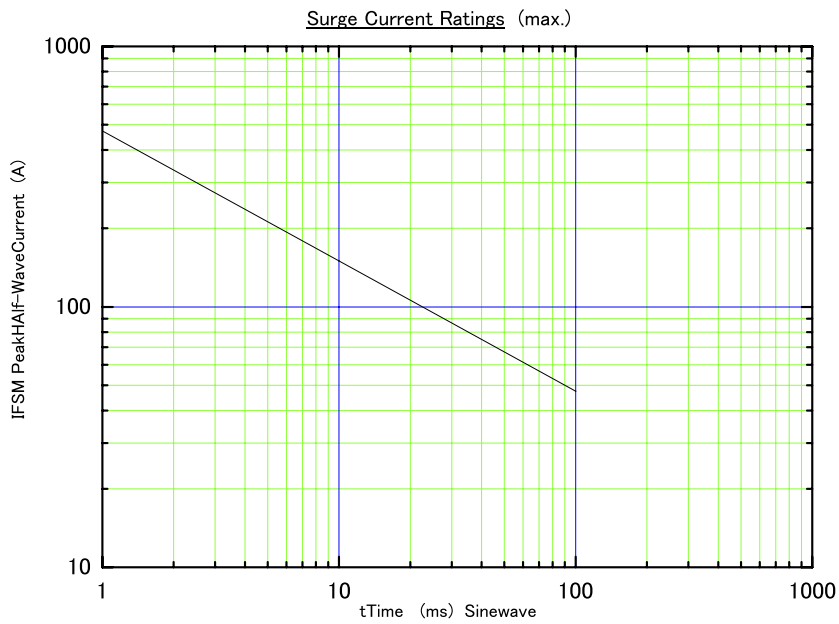
Reverse Power Dissipation (max.)





λ: Conduction angle of forward current for each rectifier element  
I<sub>o</sub>: Output current of center-tap full wave connection





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