

MS865C12 (120V, 20A)

FUJI Diode

Low IR Schottky Barrier Diode

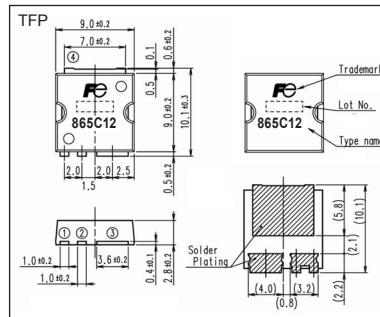
■ Features

- Low IR
- Low V_F
- Center tap connection

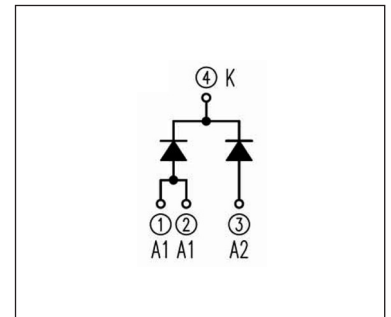
■ Applications

- 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}		120	V
Average output current	I_o	Square wave duty =1/2 $T_c =126^\circ\text{C}$	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)

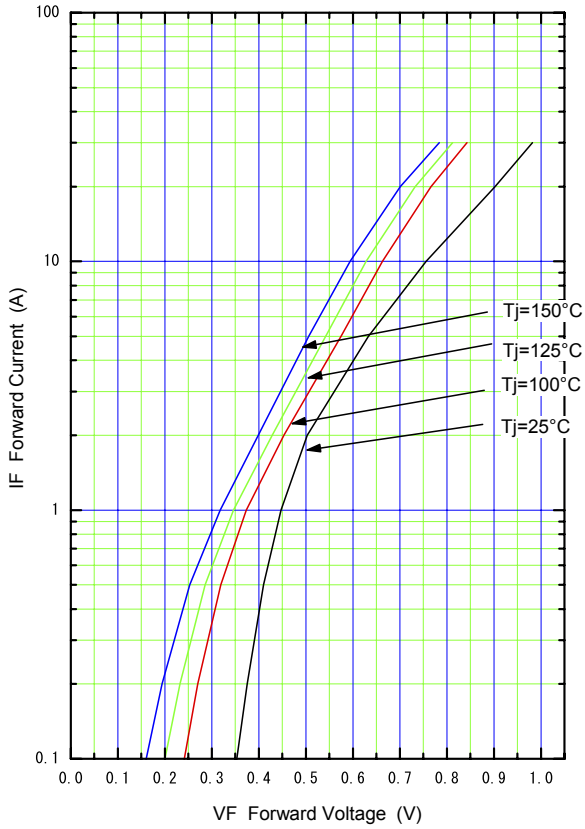
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	V_F	$I_F = 10 \text{ A}$	0.88	V
Reverse current***	I_R	$V_R = V_{RRM}$	150	μA
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.25	$^\circ\text{C/W}$

***Rating per element

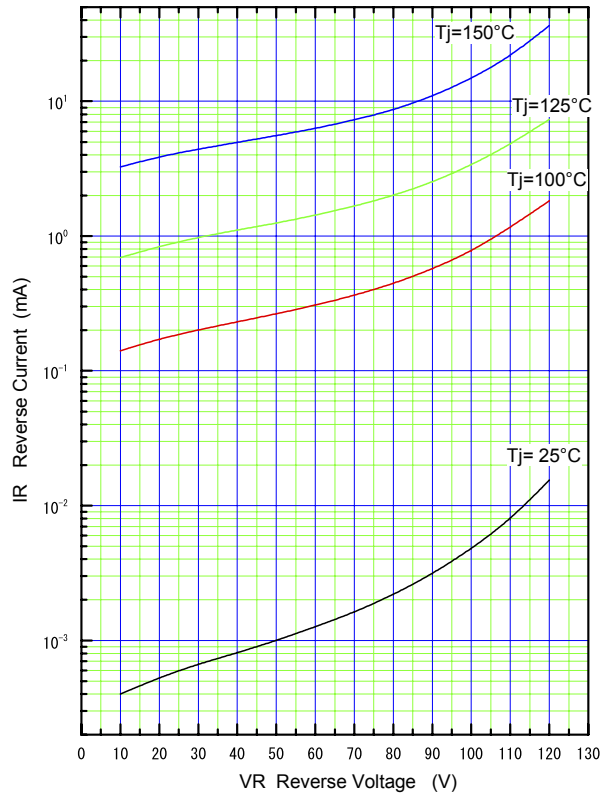
● Mechanical characteristics

Item	Conditions	Ratings	Units
Approximate mass		0.8	g

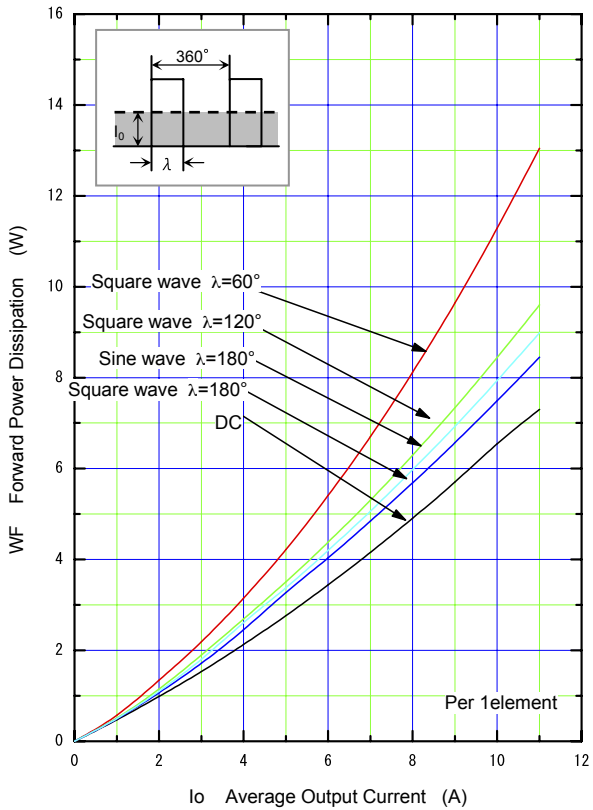
Forward Characteristic (typ.)



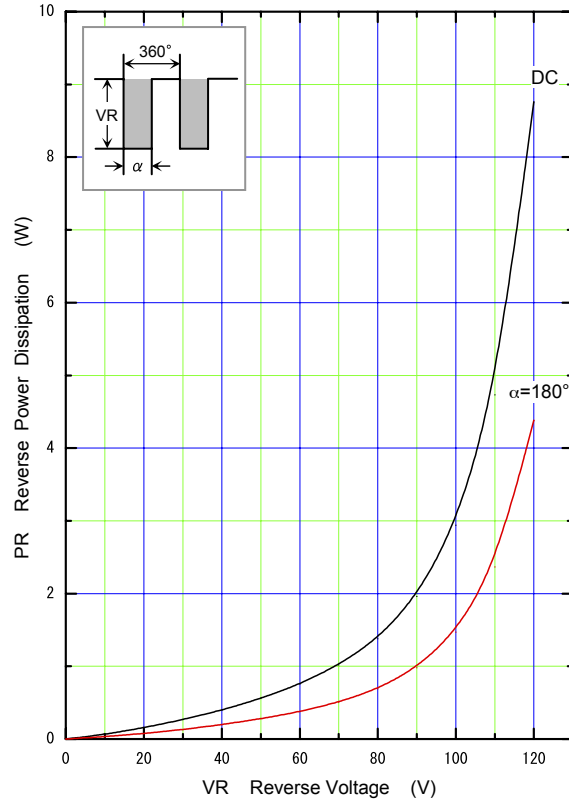
Reverse Characteristic (typ.)



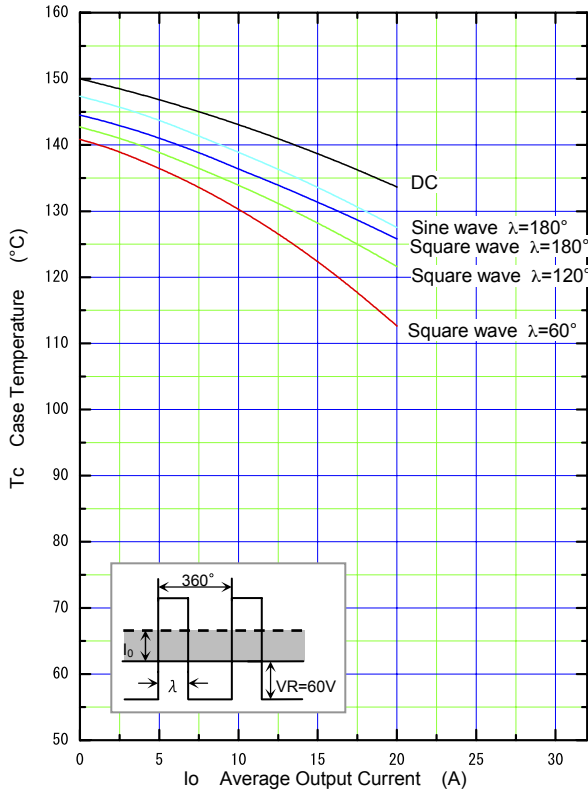
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

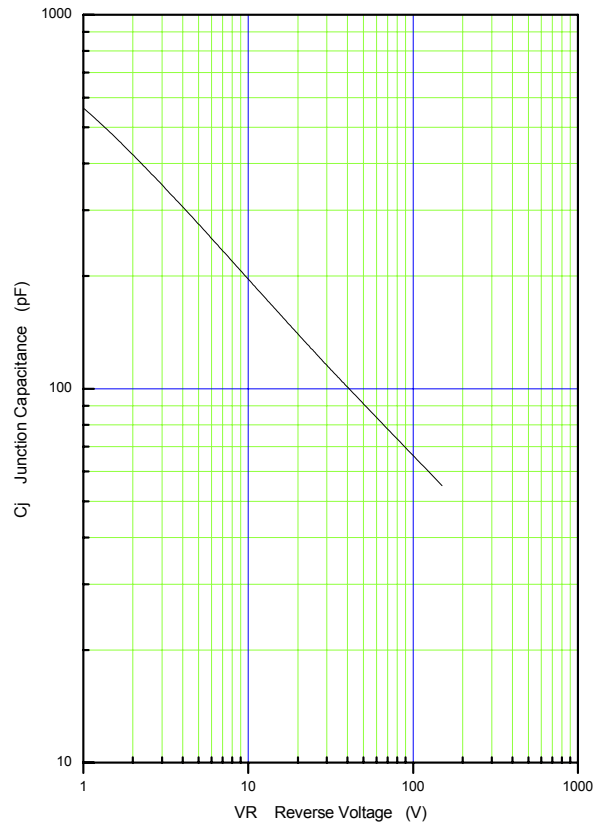


Current Derating (I_o - T_c) (max.)

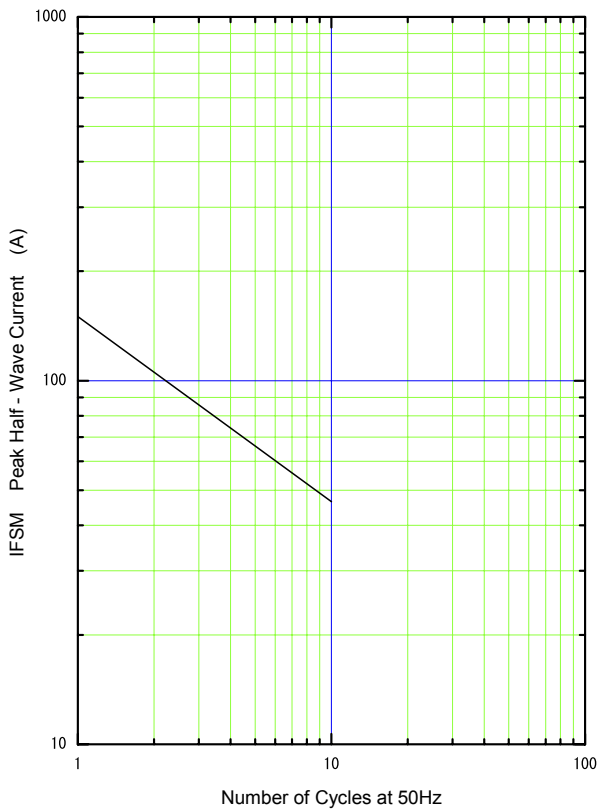


λ : Conduction angle of forward current for each rectifier element
 I_o : Output current of center-tap full wave connection

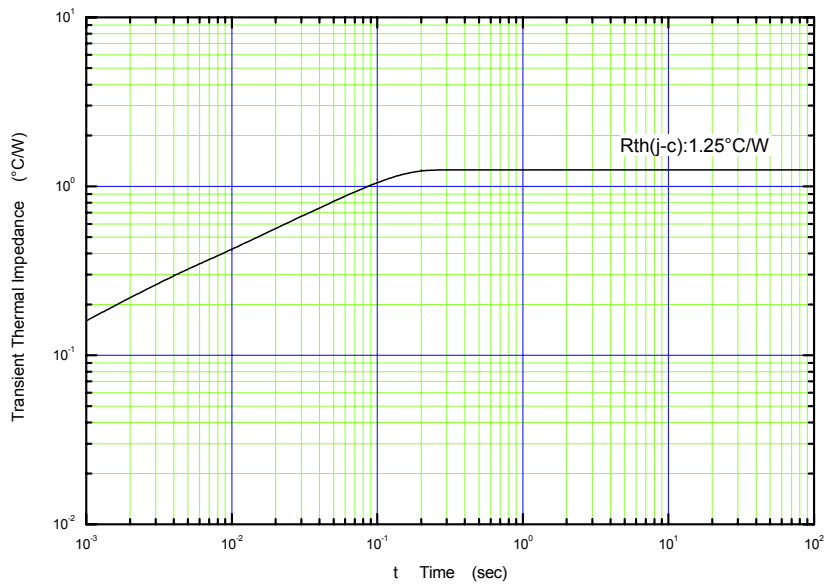
Junction Capacitance Characteristic (max.)



Surge Capability (max.)



Transient Thermal Impedance (max.)



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