

MS865C12 (120V, 20A)

FUJI Diode

Low IR Schottky Barrier Diode

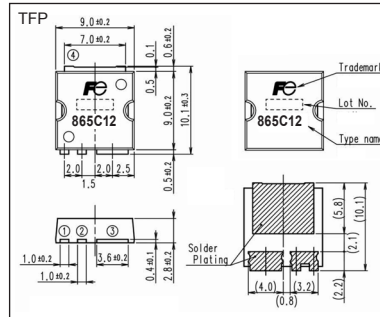
■ Features

- Low IR
- Low V_F
- Center tap connection

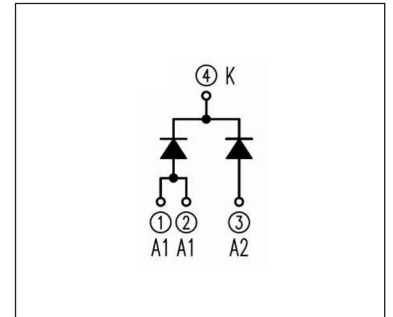
■ Applications

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

■ Outline Drawings [mm]



■ Connection diagram



■ Maximum Ratings and Characteristics

● Maximum ratings (at Ta=25°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 $T_c = 126^{\circ}C$	20 *	A
Non-repetitive surge current **	I_{FSM}	Sine wave, 10ms 1shot	150	A
Operating junction temperature	T_j		150	$^{\circ}C$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}C$

*Out put current of center tap full wave connection.

**Rating per element

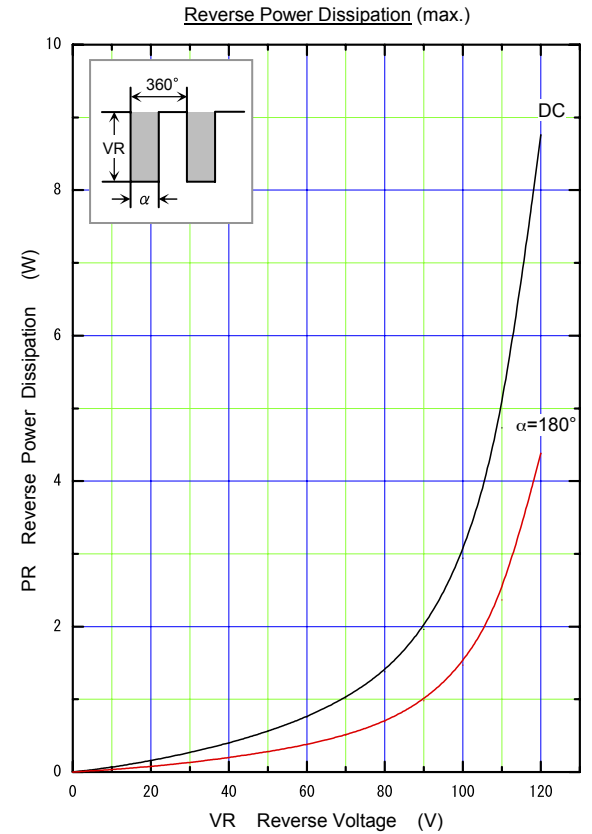
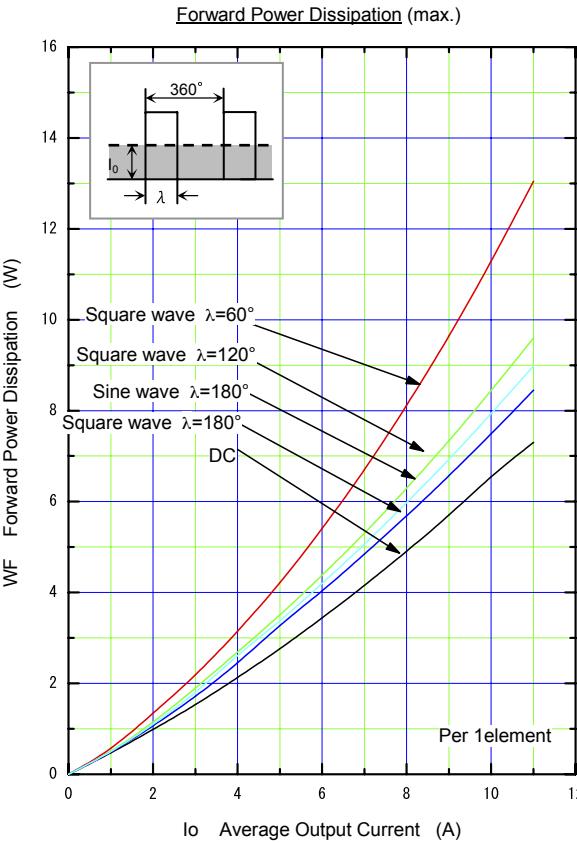
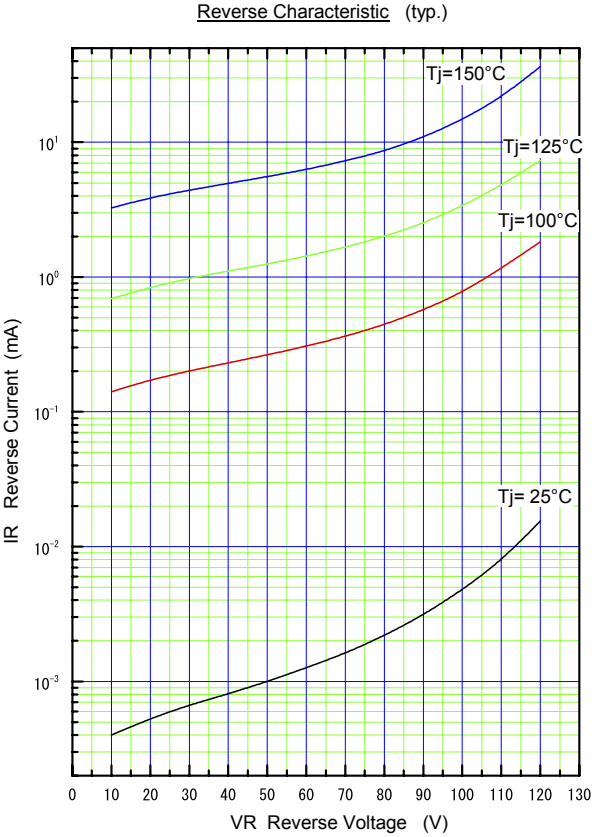
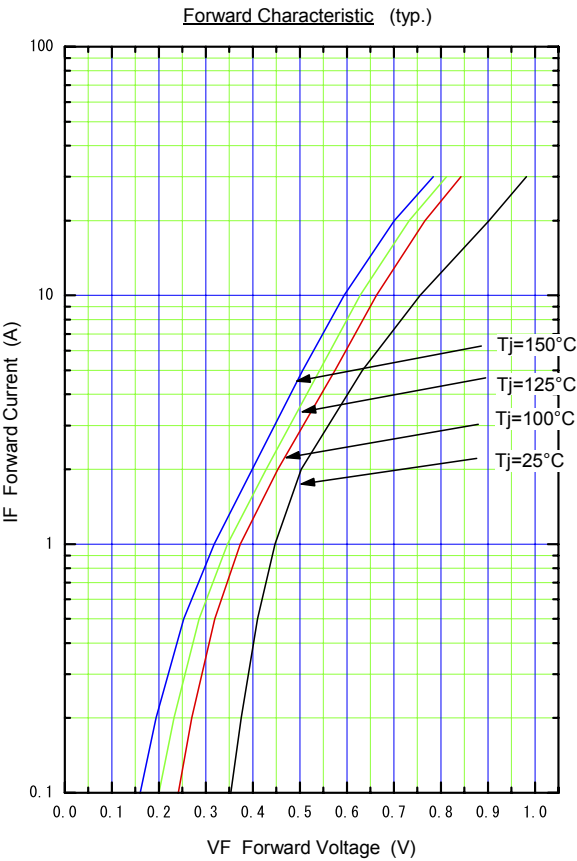
● Electrical characteristics (at Ta=25°C Unless otherwise specified)

Item	Symbols	Conditions	Maximum	Units
Forward voltage***	V_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	$^{\circ}\text{C/W}$

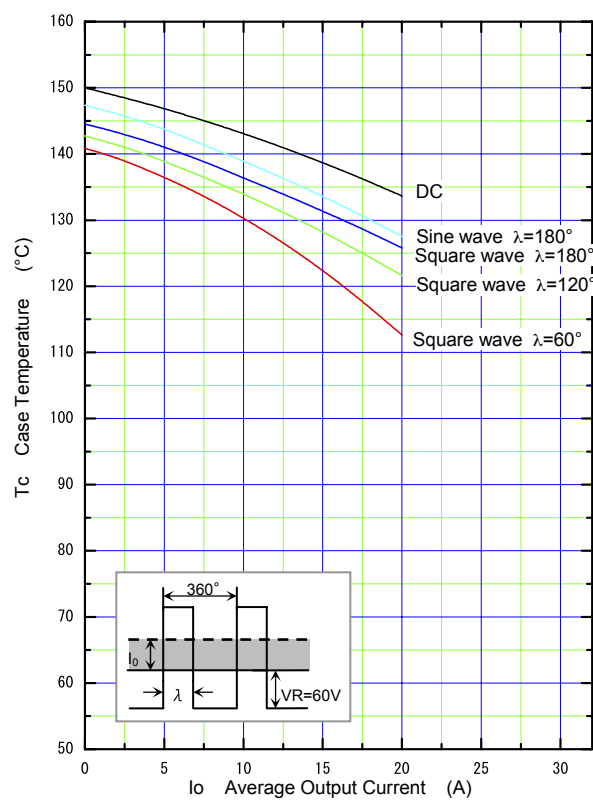
***Rating per element

● Mechanical characteristics

Item	Conditions	Ratings	Units
Approximate mass		0.8	g

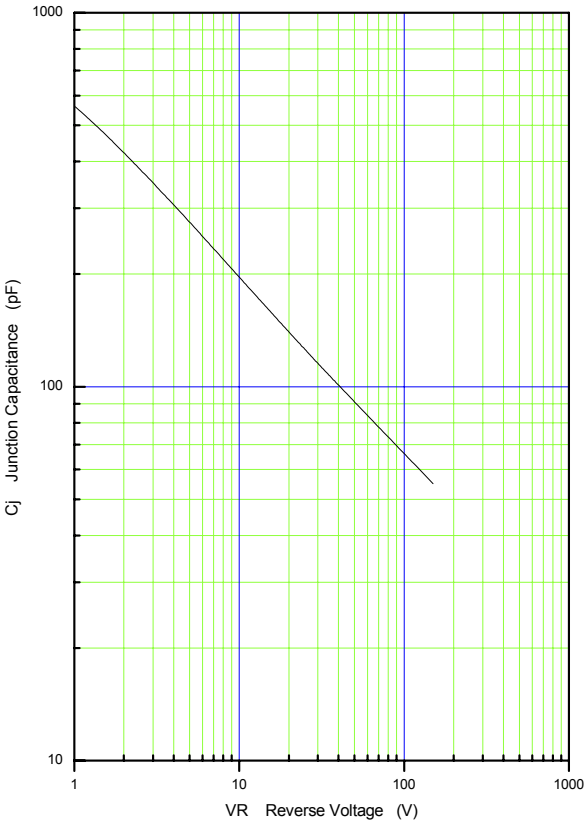


Current Derating (Io-Tc) (max.)

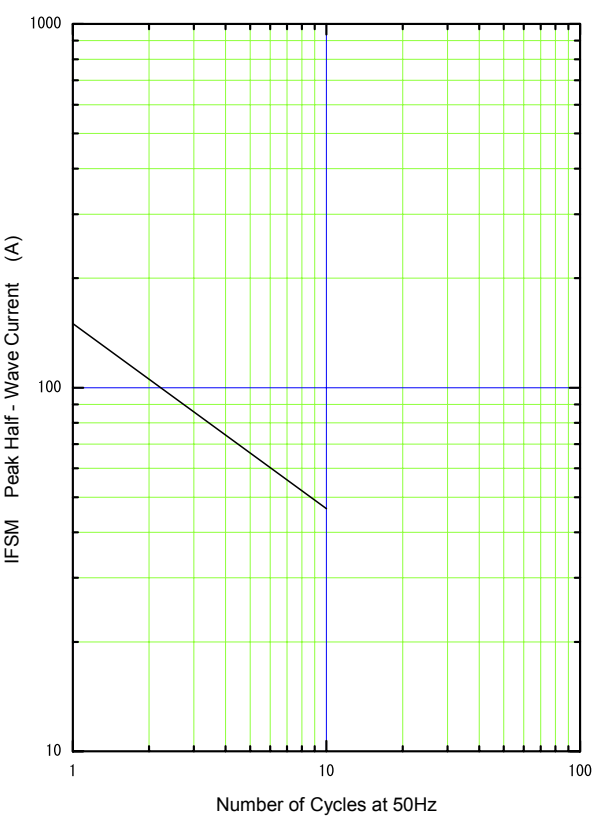


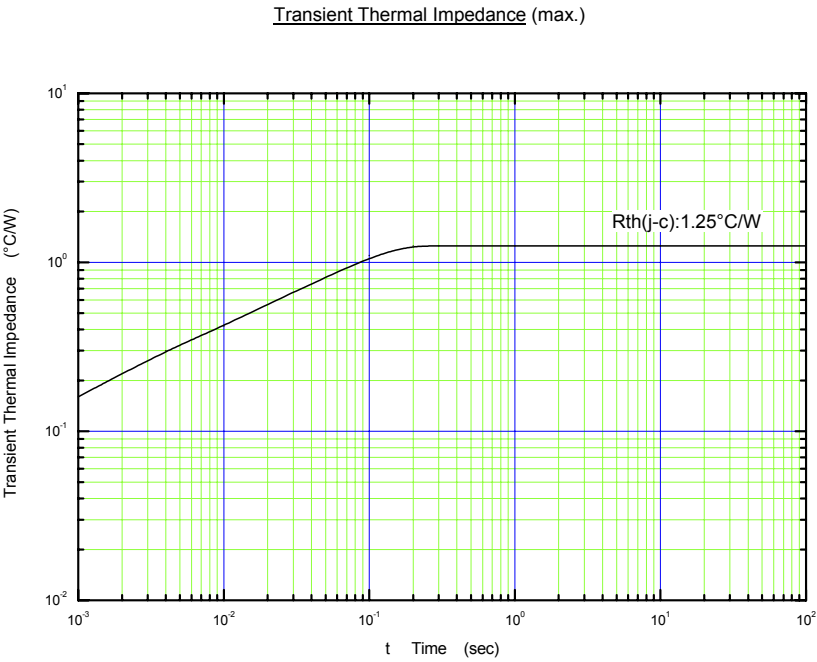
λ: Conduction angle of forward current for each rectifier element
Io: Output current of center-tap full wave connection

Junction Capacitance Characteristic (max.)



Surge Capability (max.)





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