MS865C04 (45V, 20A)

FUJI Diode

Low IR Schottky Barrier Diode

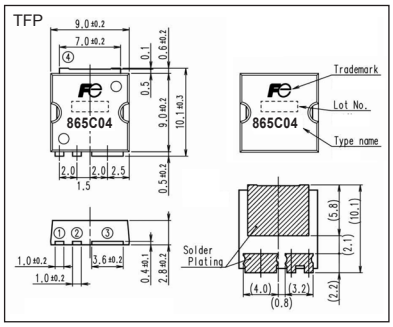
Features

- Low IR
- Low V_F
- Center tap connection

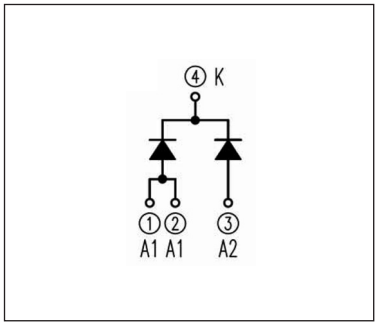
Applications

- 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}		45	V
Average output current	I_O	Square wave duty =1/2 Tc =125˚C	20 *	A
Non-repetitive surge current **	I_{FSM}	Sine wave, 10ms 1shot	145	A
Operating junction temperature	T_j		150	˚C
Storage temperature	T_{stg}		-40 to +150	˚C

*Out put current of center tap full wave connection.
**Rating per element

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

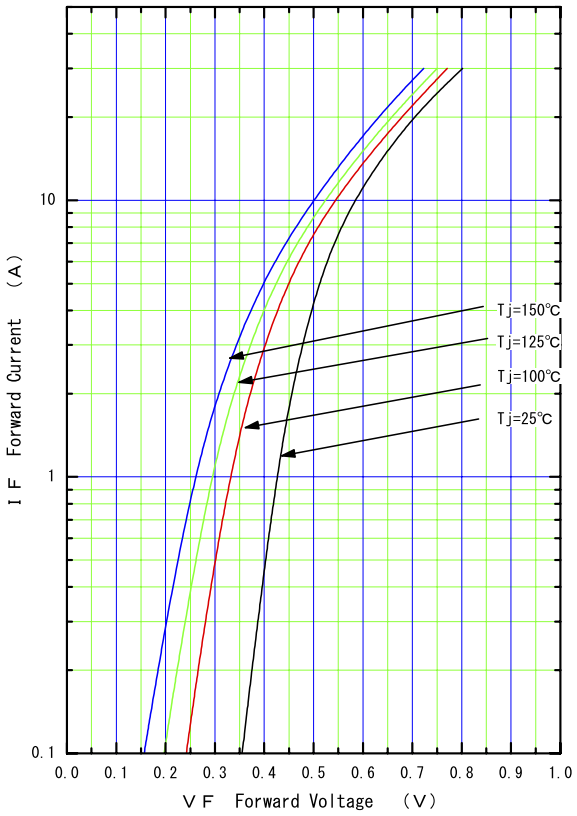
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	V_F	I_F = 10 A	0.63	V
Reverse current***	I_R	V_R =V_{RRM}	175	μA
Thermal resistance	Rth(j-c)	Junction to case	1.75	˚C/W

***Rating per element

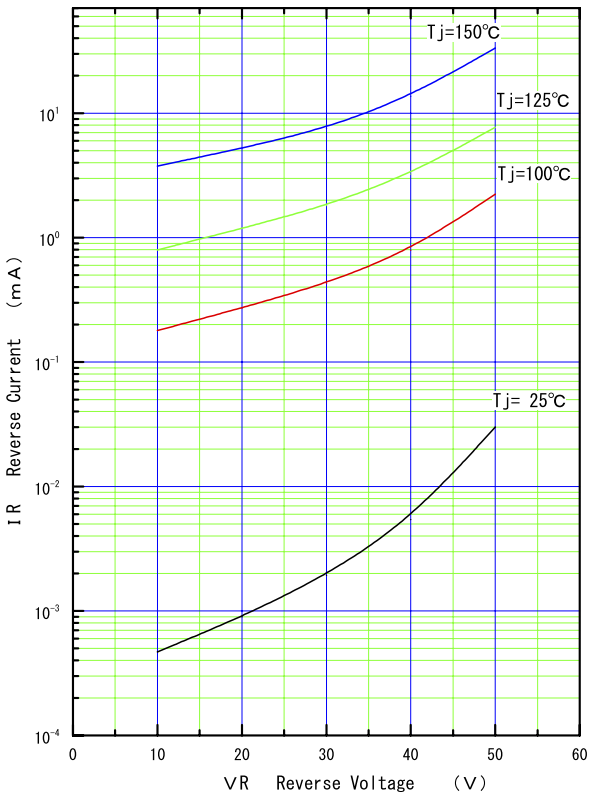
● **Mechanical characteristics**

Item	Conditions	Ratings	Units
Approximate mass		0.8	g

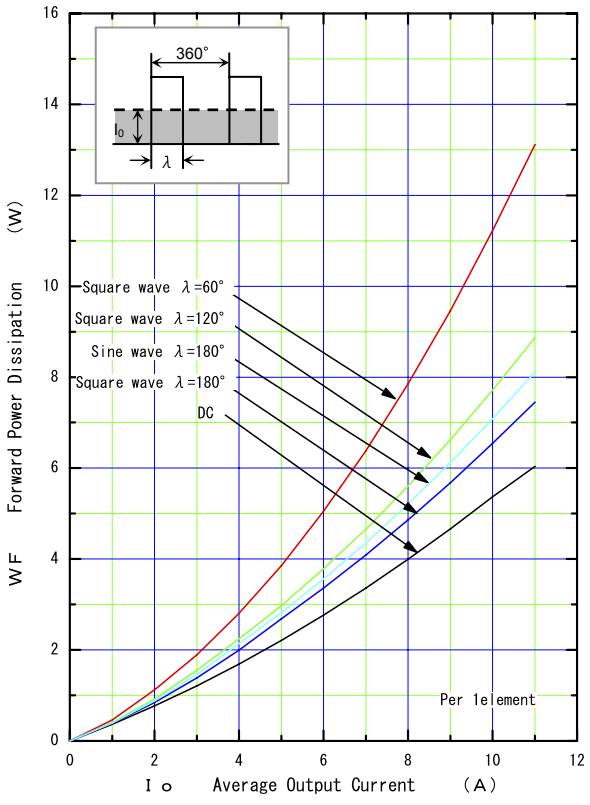
Forward Characteristic (typ.)



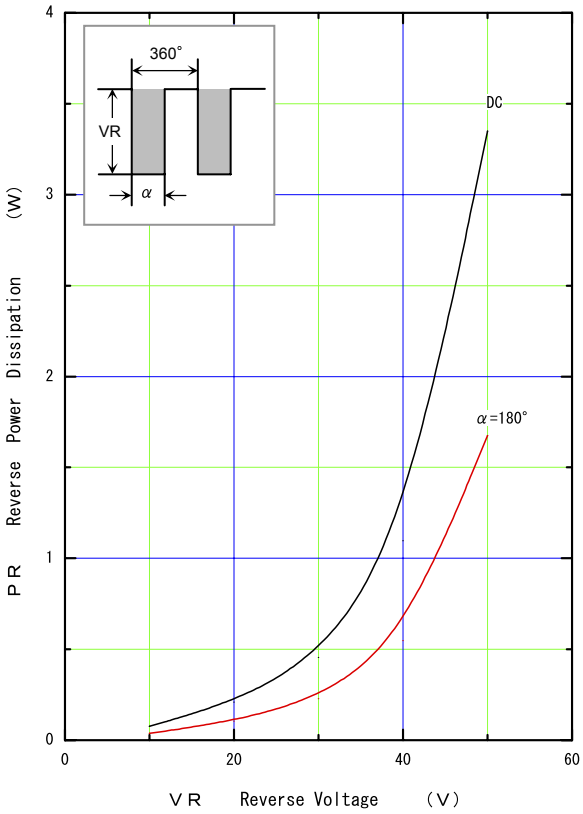
Reverse Characteristic (typ.)



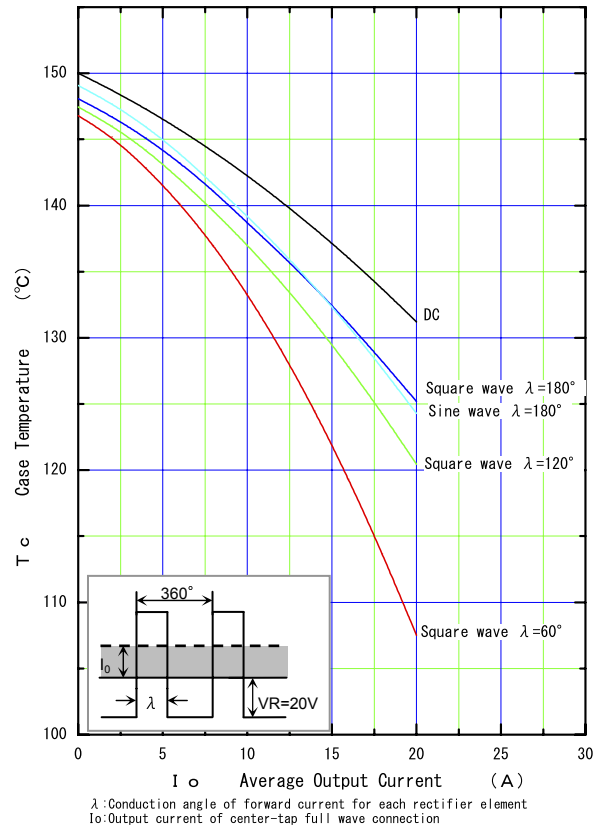
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

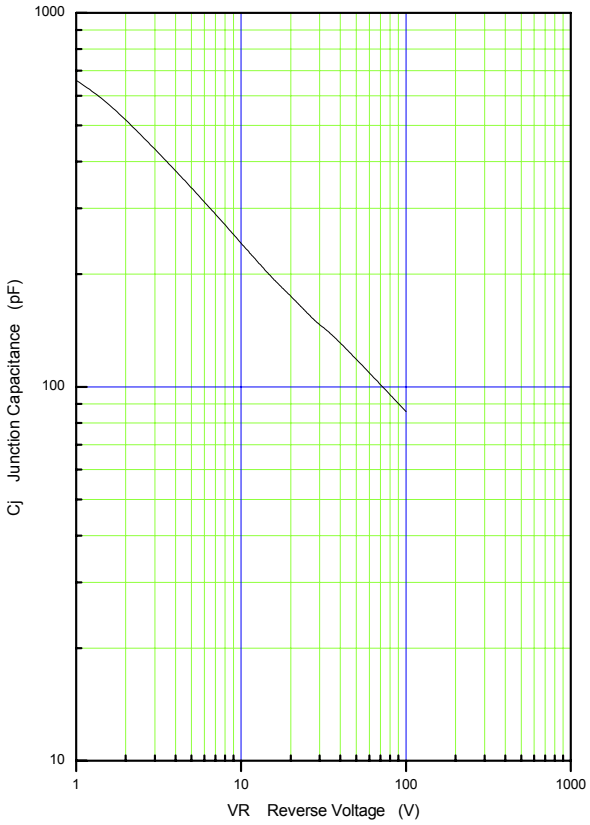


Current Derating (Io-Tc) (max.)

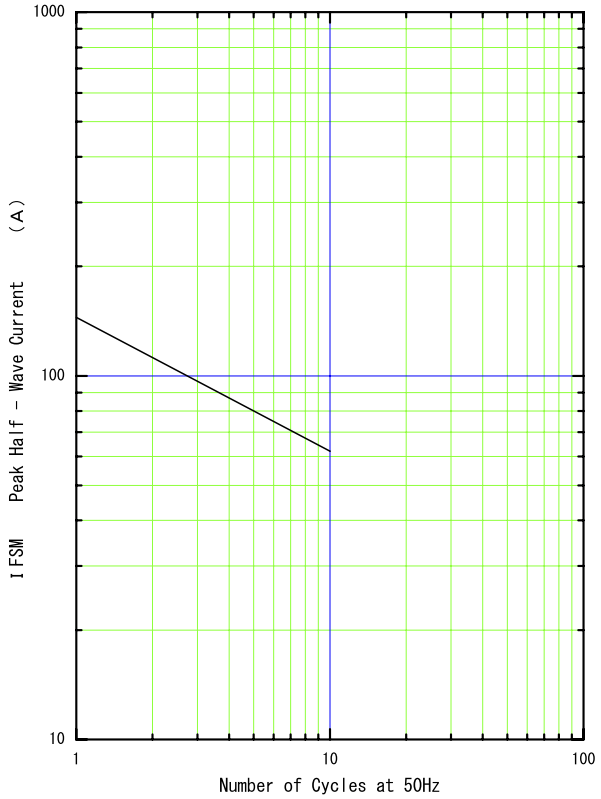


λ:Conduction angle of forward current for each rectifier element
Io:Output current of center-tap full wave connection

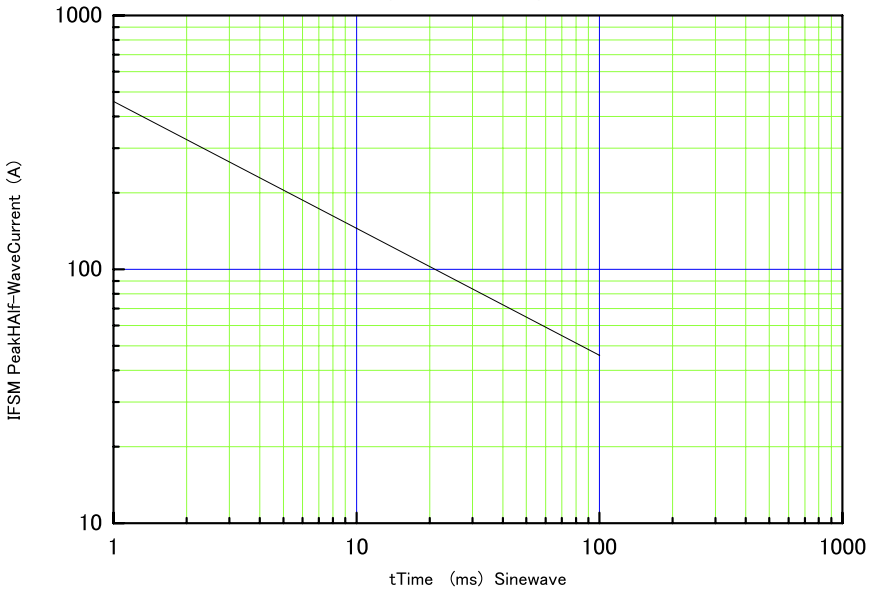
Junction Capacitance Characteristic (max.)



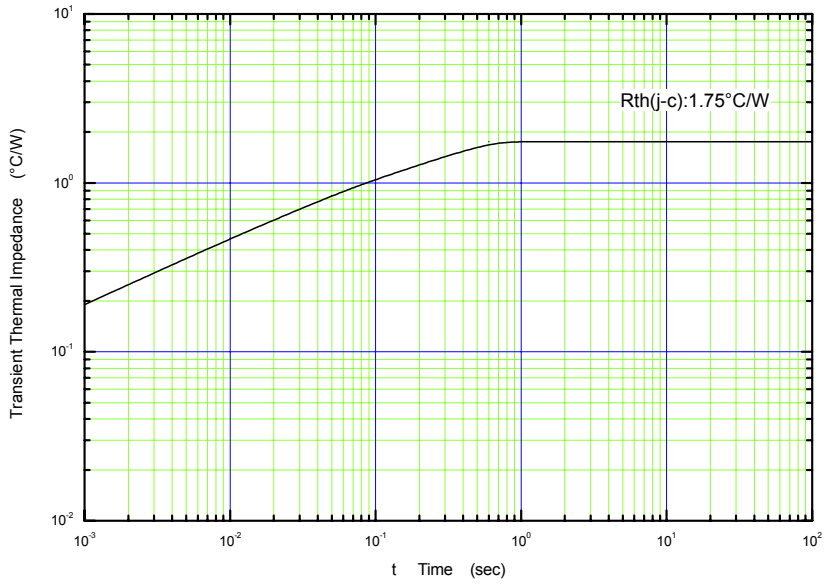
Surge Capability (max.)



Surge Current Ratings (max.)



Transient Thermal Impedance (max.)



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   • Medical equipment

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