

MS865C04 (45V, 20A)

FUJI Diode

Low IR Schottky Barrier Diode

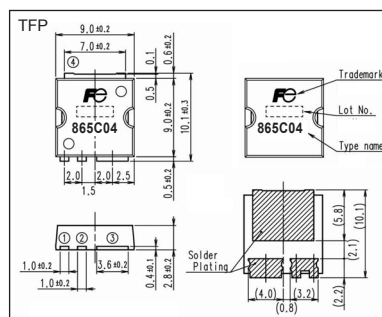
■ Features

- Low IR
- Low V_F
- Center tap connection

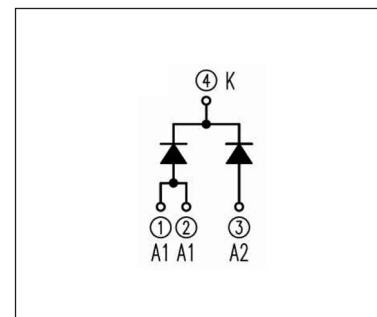
■ Applications

- 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 $T_c = 125^{\circ}C$	20 *	A
Non-repetitive surge current **	I_{FSM}	Sine wave, 10ms 1shot	145	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)

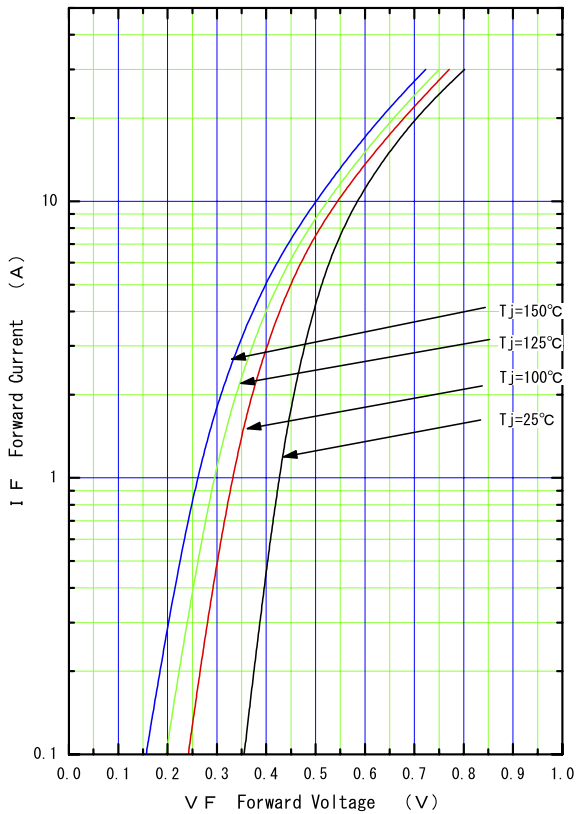
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	V _F	I _F = 10 A	0.63	V
Reverse current†***	I _R	V _R = V _{RRM}	175	μA
Thermal resistance	R _{th(j-c)}	Junction to case	1.75	°C/W

***Rating per element

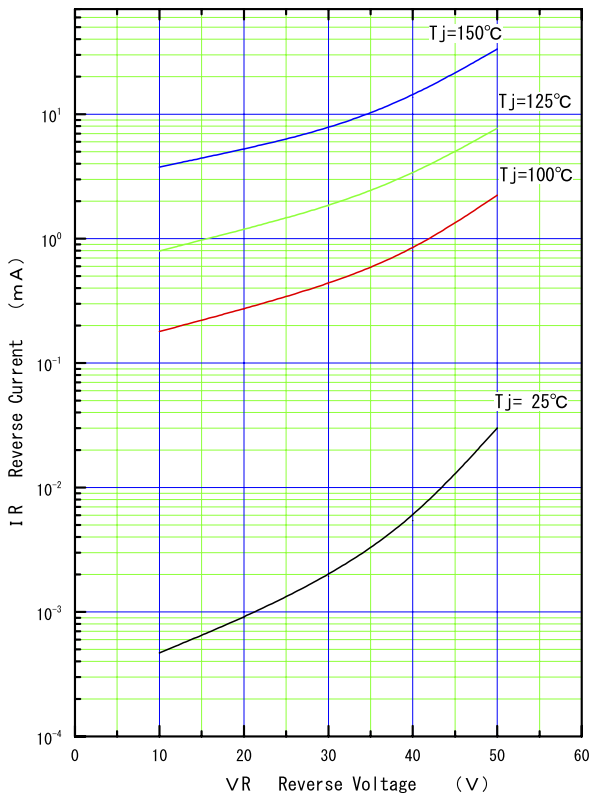
● Mechanical characteristics

Item	Conditions	Ratings	Units
Approximate mass		0.8	g

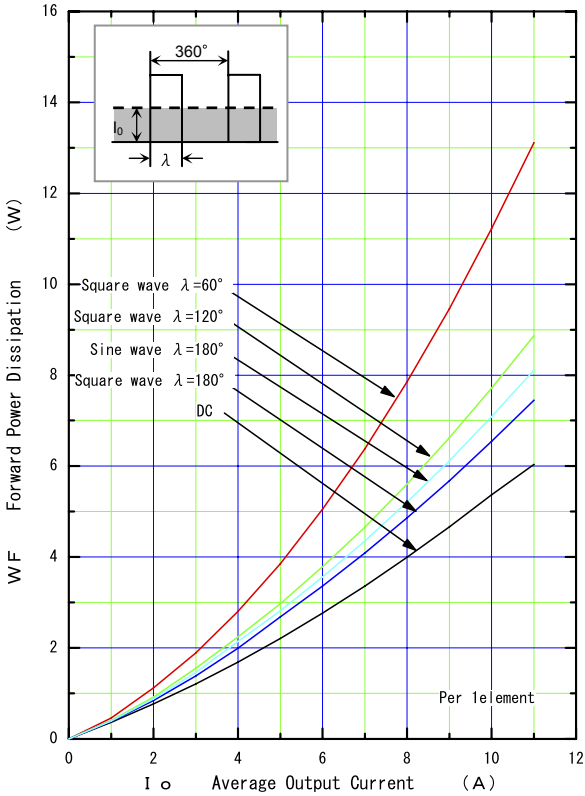
Forward Characteristic (typ.)



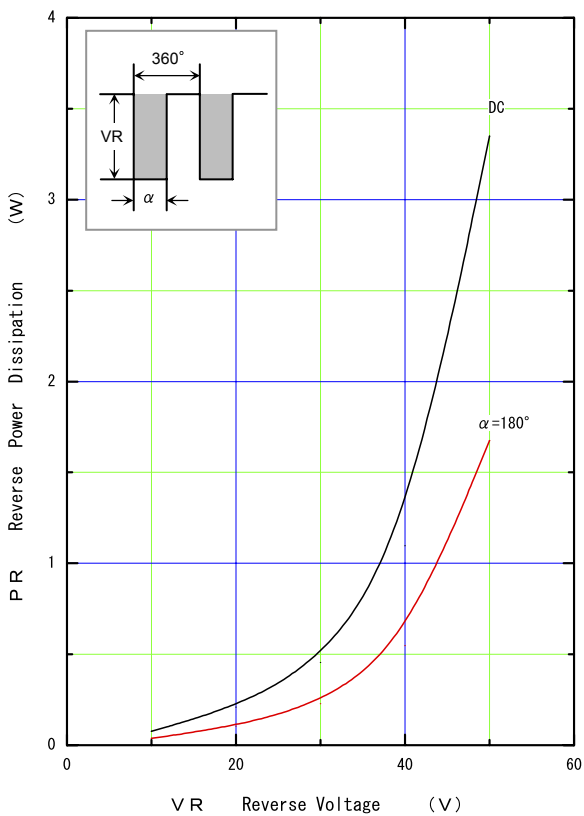
Reverse Characteristic (typ.)

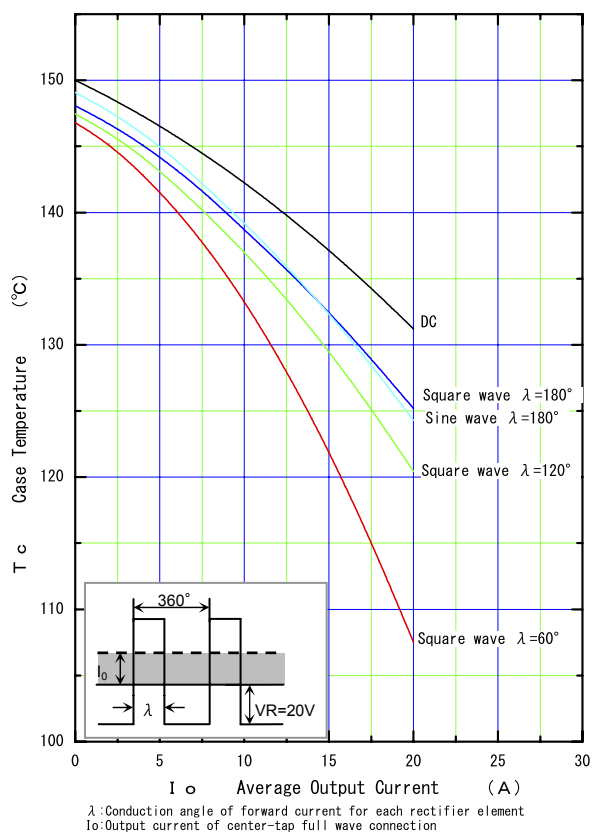


Forward Power Dissipation (max.)

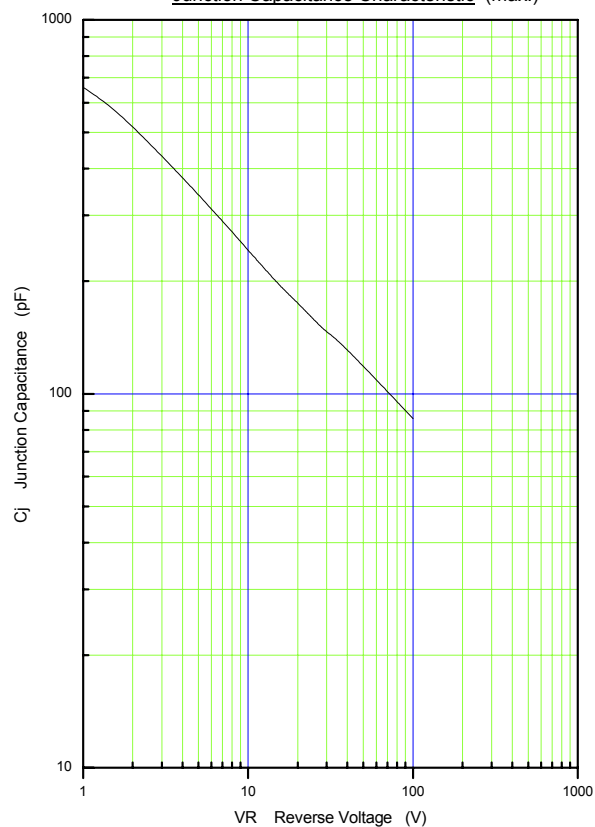


Reverse Power Dissipation (max.)

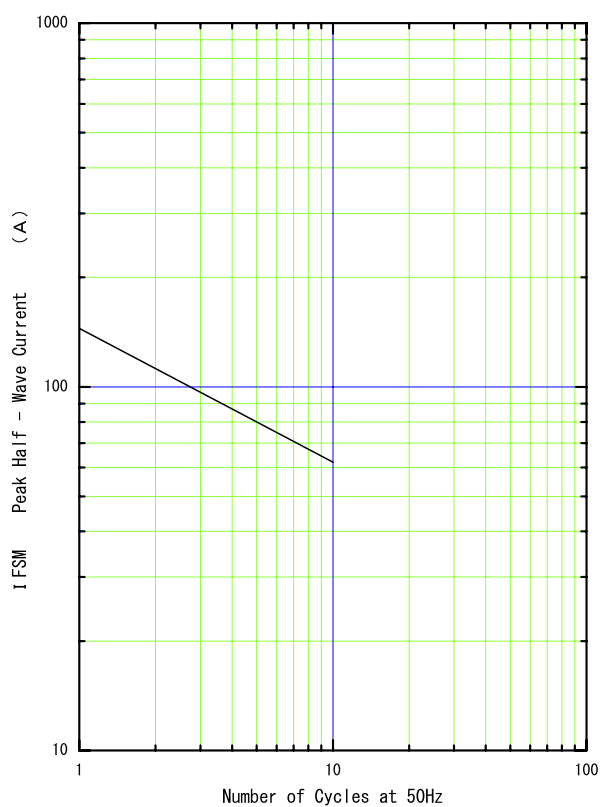


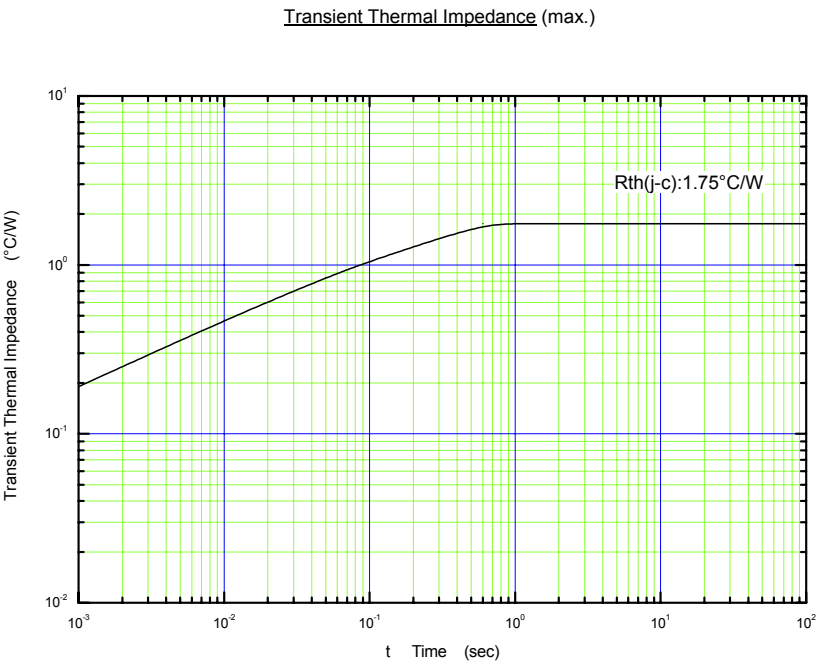
Current Derating (I_o - T_c) (max.)

Junction Capacitance Characteristic (max.)



Surge Capability (max.)





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