

# MS868C15

FUJI Diode

## Schottky Barrier Diode

### ■ Maximum Rating and Characteristics

#### ● Maximum ratings (at Ta=25°C unless otherwise specified.)

Item	Symbols	Conditions	Ratings	Units
Repetitive peak surge reverse voltage	$V_{RSM}$	tw=500ns, duty=1/40	150	V
Repetitive peak reverse voltage	$V_{RRM}$	-	150	V
Average output current	$I_O$	Square wave duty =1/2 Tc = 113°C	30*	A
Non-repetitive forward surge current**	$I_{FSM}$	Sine wave, 10ms	190	A
Operating junction temperature	Tj	-	150	°C
Storage temperature	Tstg	-	-40 to +150	°C

Note\* Out put current of center tap full wave connection.

Note\*\* Rating per element

#### ● Electrical characteristics (at Ta=25°C unless otherwise specified.)

Item	Symbols	Conditions	Maximum	Units
Forward voltage***	$V_F$	$I_F = 15 A$	0.90	V
Reverse current***	$I_R$	$V_R = 150V$	200	μA
Thermal resistance	Rth(j-c)	Junction to case	1.2	°C/W

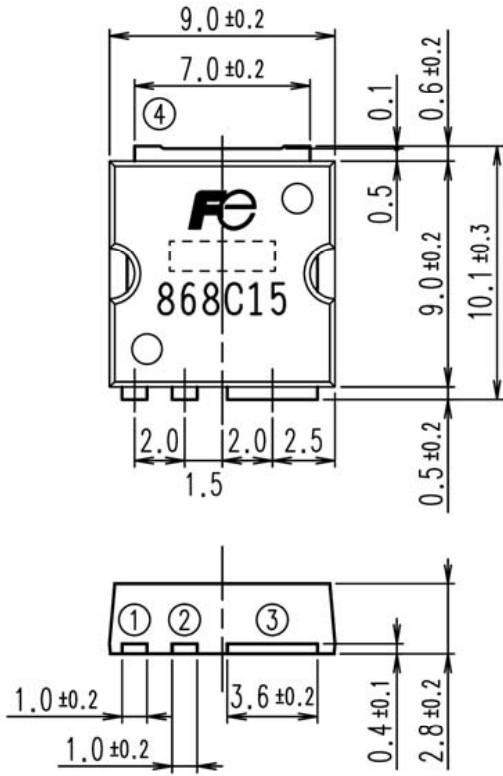
Note\*\*\* Rating per element

#### ● Mechanical characteristics

Item	Conditions	Maximum	Units
Approximate mass	-	0.8	g

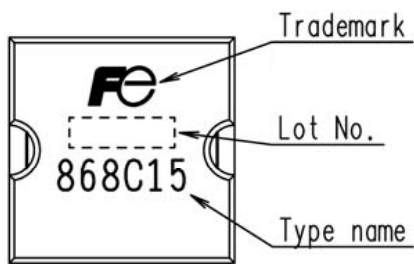
■ Outline Drawings [mm]

OUT VIEW

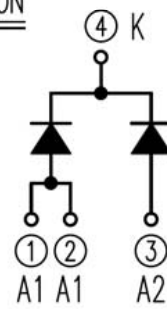


DIMENSIONS ARE IN MILLIMETERS.

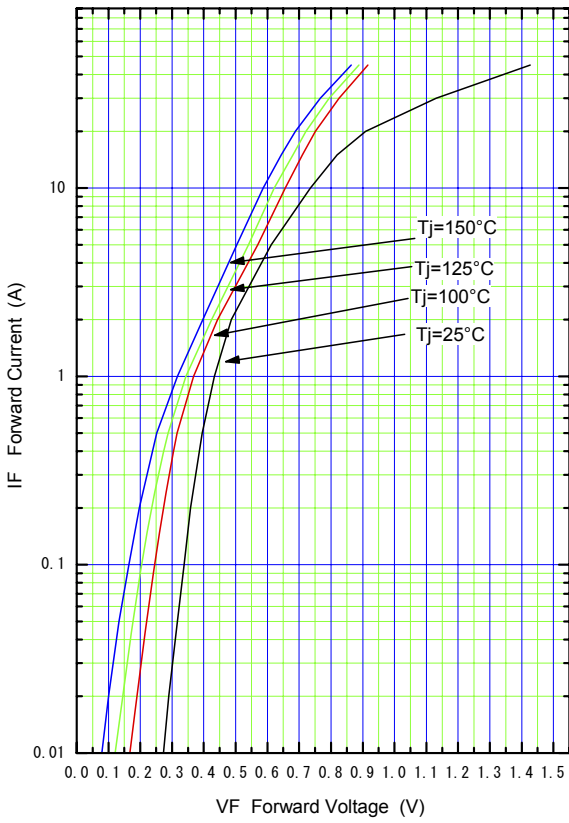
MARKING



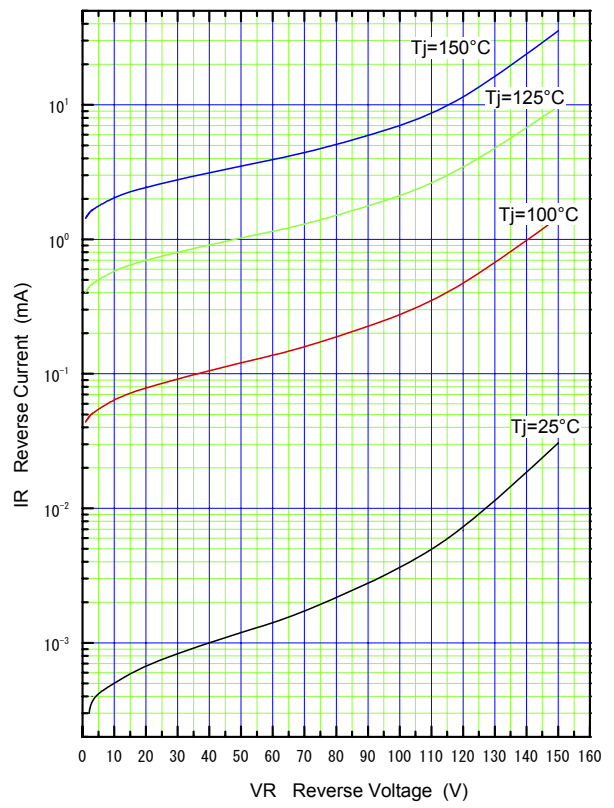
CONNECTION



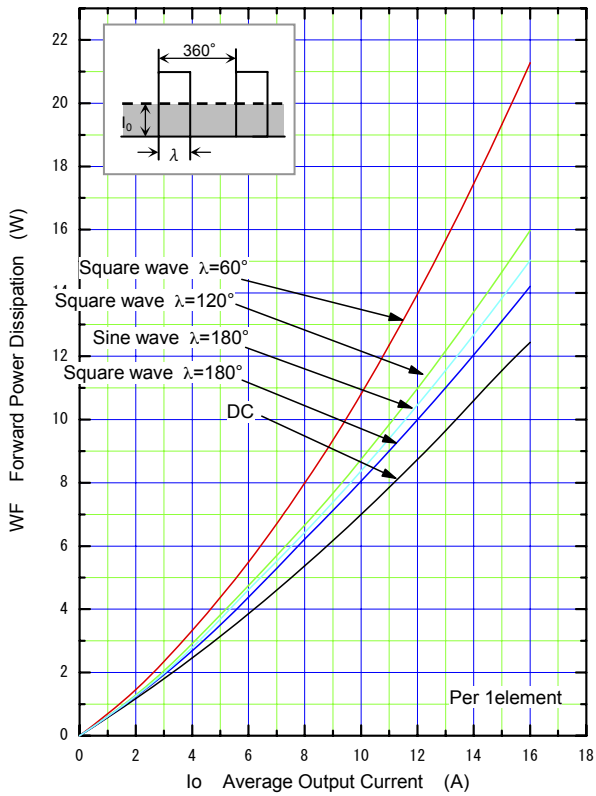
Forward Characteristic (typ.)



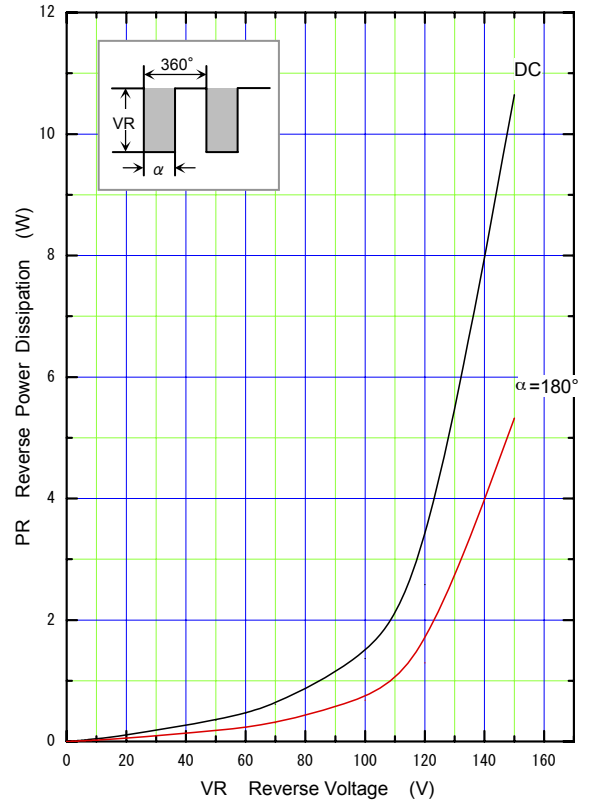
Reverse Characteristic (typ.)



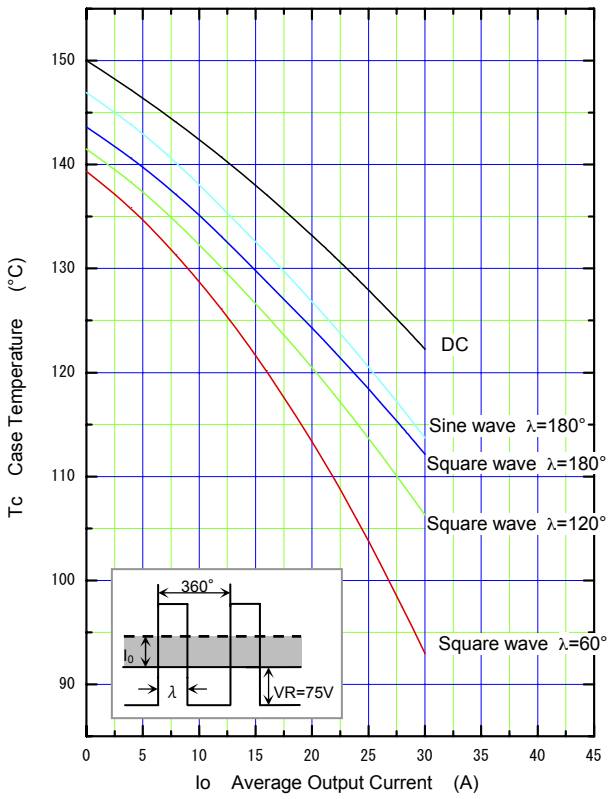
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

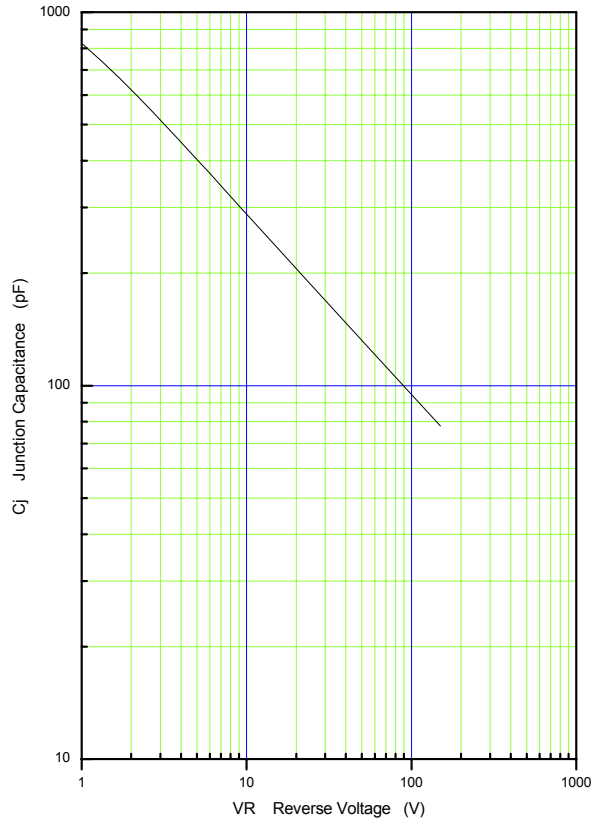


Current Derating ( $I_o$ - $T_c$ ) (max.)

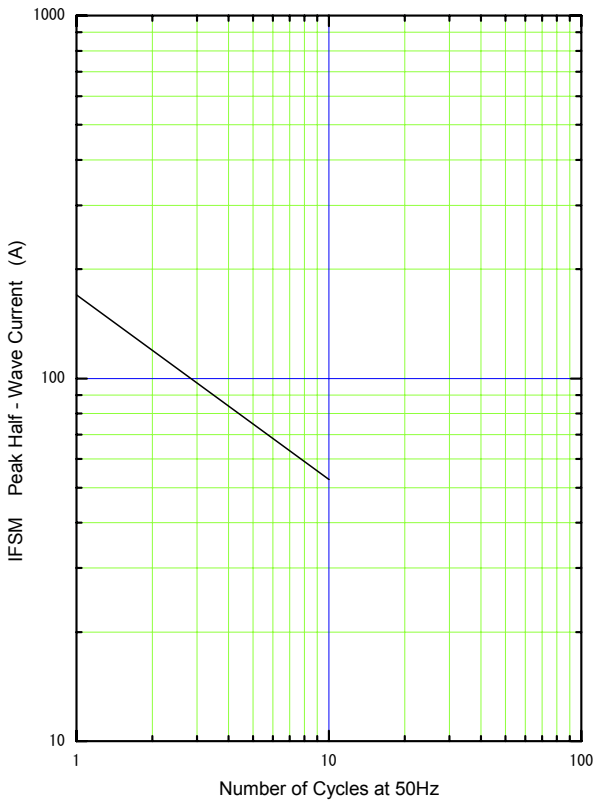


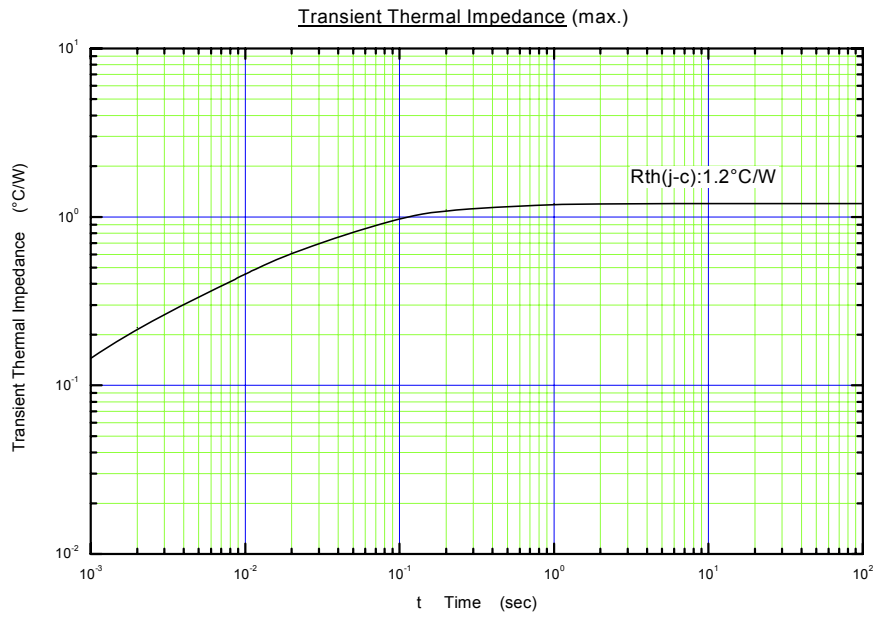
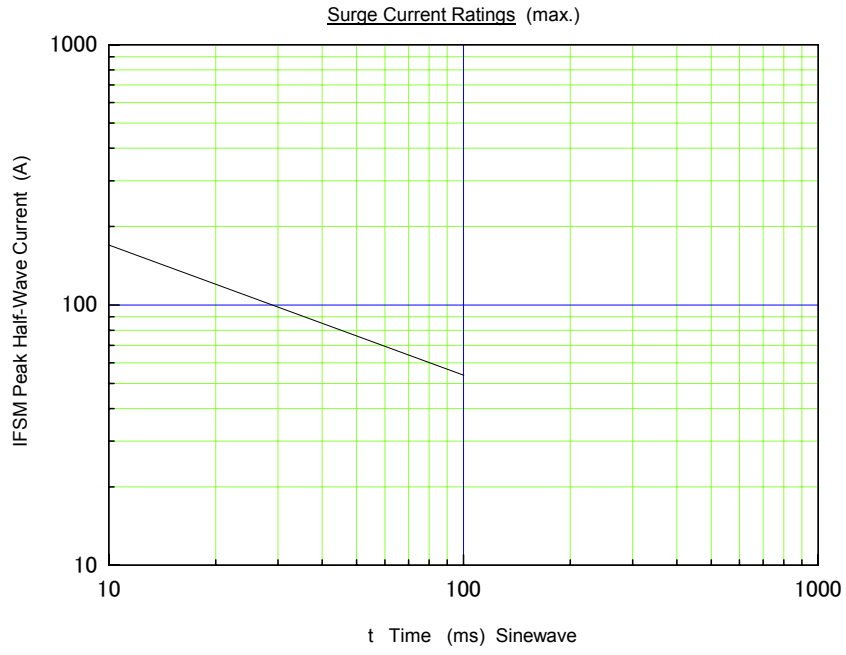
$\lambda$ : Conduction angle of forward current for each rectifier element  
 $I_o$ : Output current of center-tap full wave connection

Junction Capacitance Characteristic (max.)



Surge Capability (max.)





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  - Machine tools
  - Audiovisual equipment
  - Electrical home appliances
  - Personal equipment
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