YA852C12R

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 reverse voltage	V_{RRM}	-	120	V
Average output current	Io	50Hz Square wave duty =1/2 Tc = 128˚C	10*	A
Non-repetitive forward surge current**	I_{FSM}	Sine wave, 10ms 1shot	55	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.)**

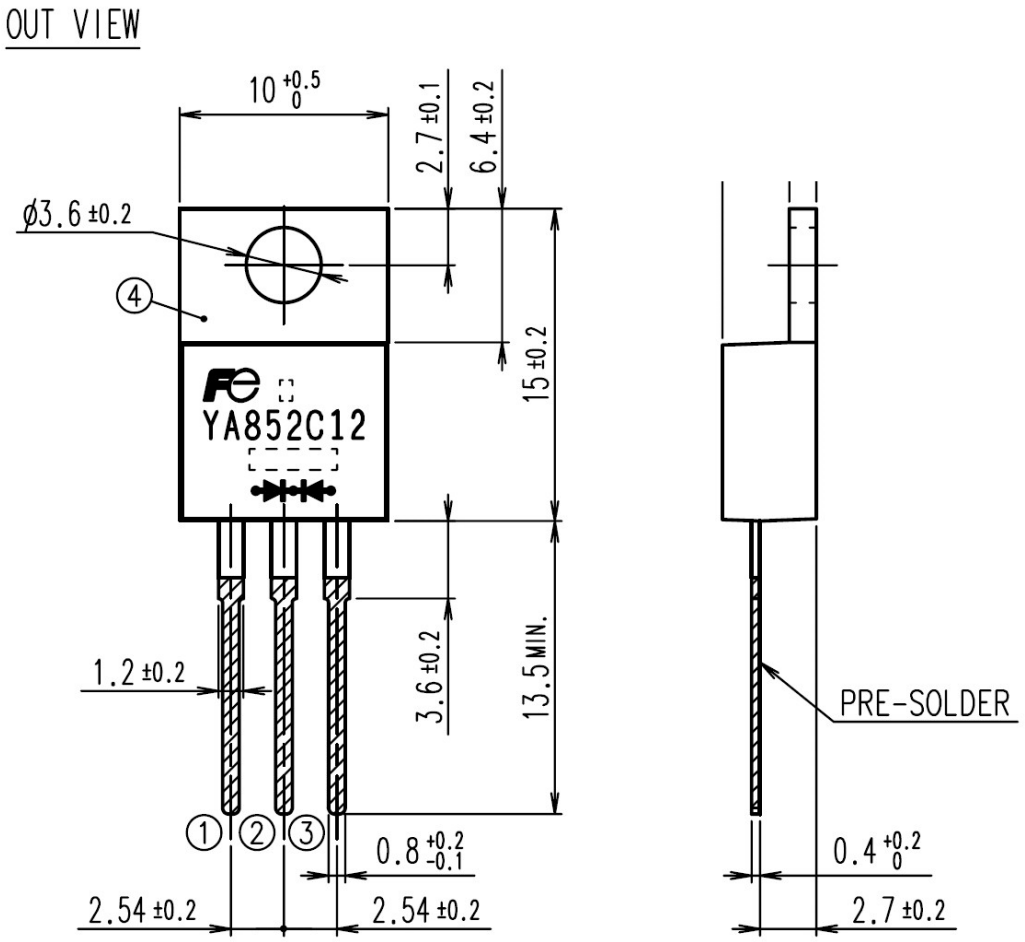
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	V_F	I_F = 5 A	0.93	V
Reverse current***	I_R	$V_R = V_{RRM}$	150	μA
Thermal resistance	Rth(j-c)	Junction to case	2.0	˚C/W

Note*** Rating per element

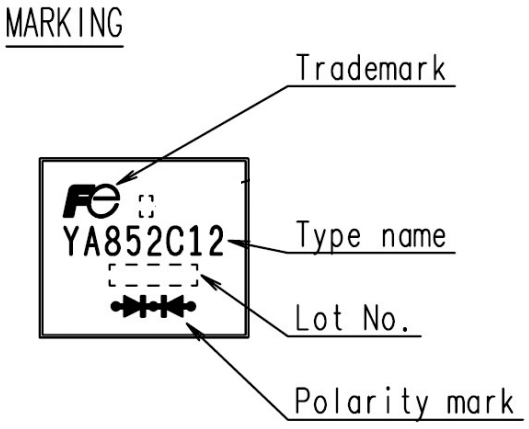
● **Mechanical characteristics**

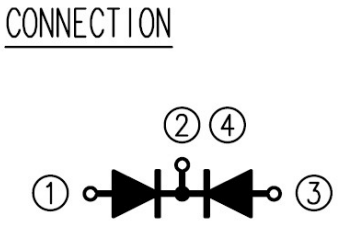
Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.3 to 0.5	N•m
Approximate mass	-	2.0	g

■ Outline Drawings [mm]

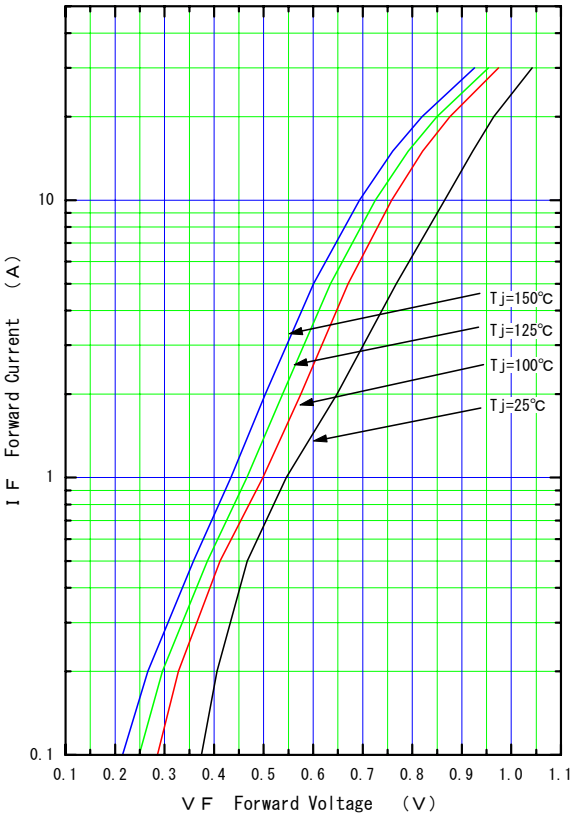


DIMENSIONS ARE IN MILLIMETERS.

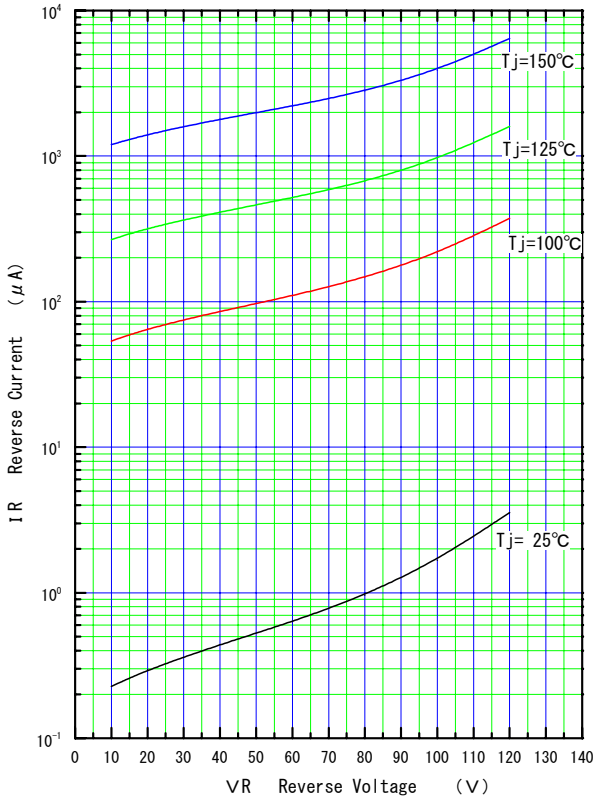




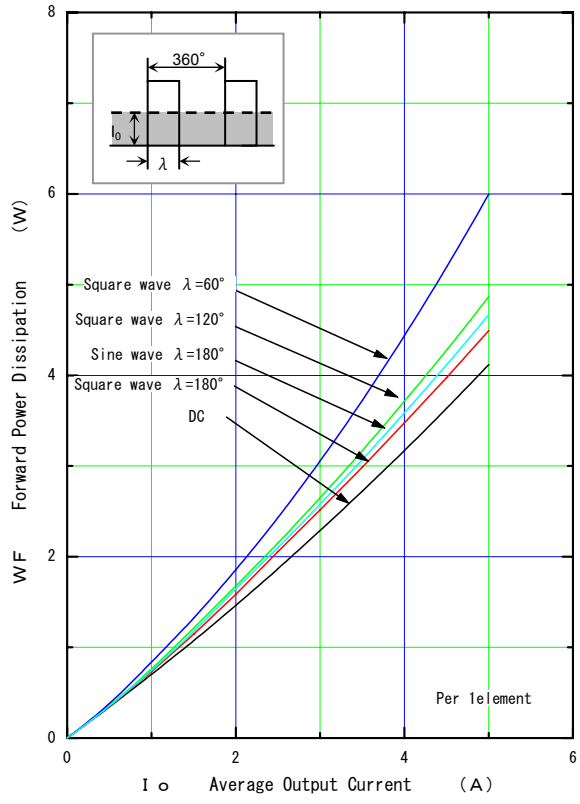
Forward Characteristic (typ.)



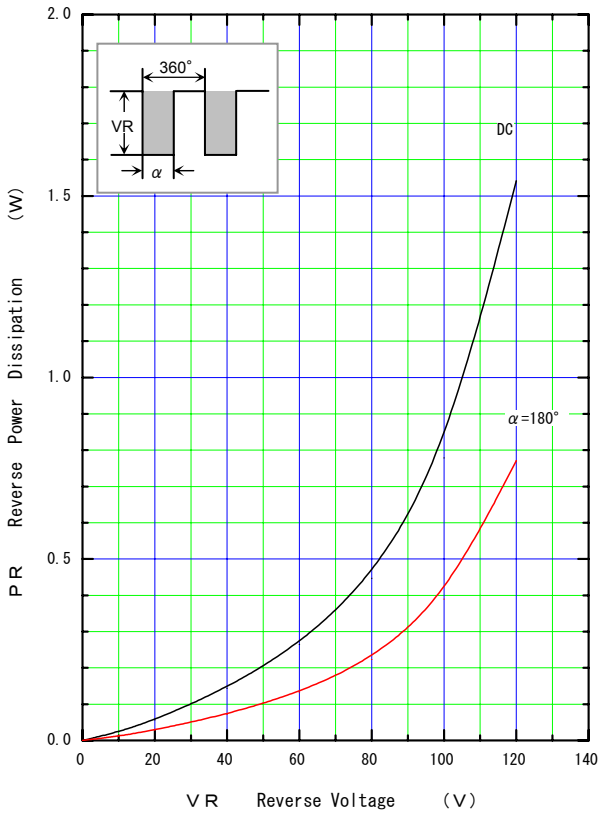
Reverse Characteristic (typ.)



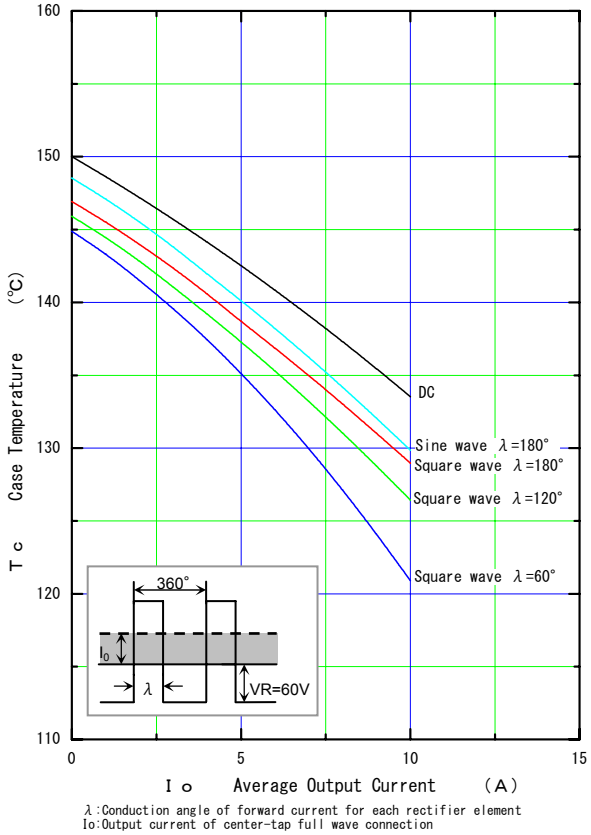
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

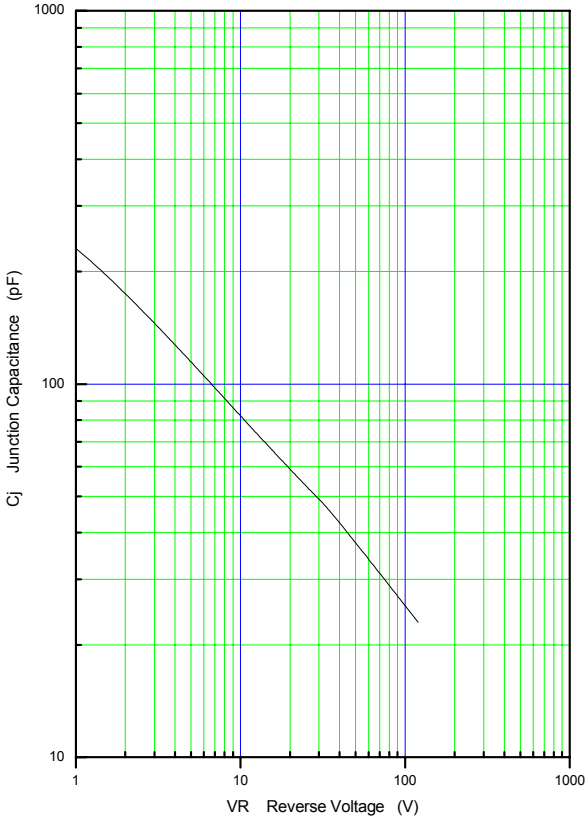


Current Derating (Io-Tc) (max.)

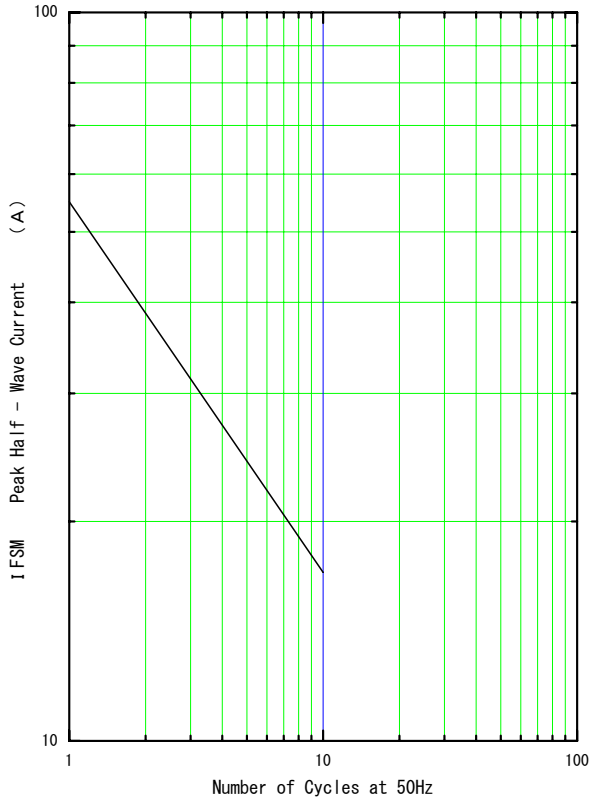


λ:Conduction angle of forward current for each rectifier element
Io:Output current of center-tap full wave connection

Junction Capacitance Characteristic (max.)



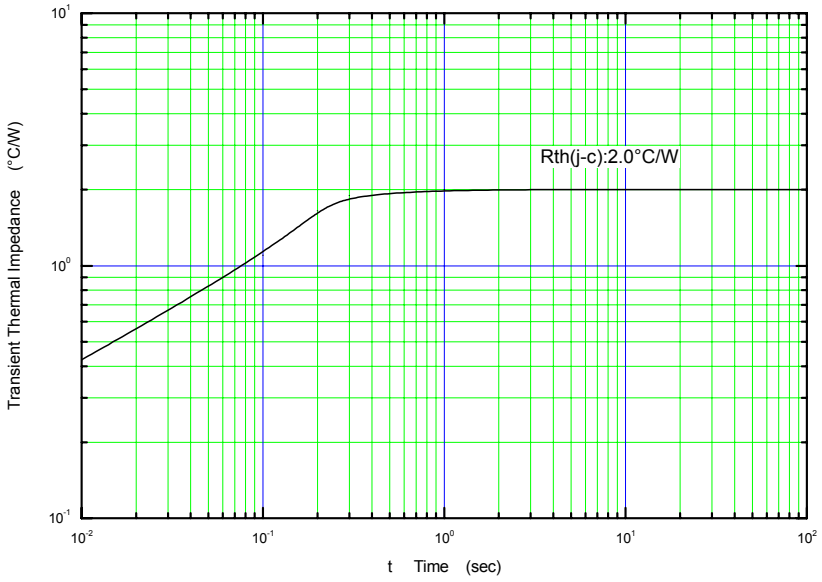
Surge Capability (max.)



Surge Current Ratings (max.)



Transient Thermal Impedance (max.)



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