

ESAD92M-03RR

FUJI Diode

Low-Loss Fast Recovery 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}	-	300	V
Isolating voltage	Viso	Terminals-to-Case, AC.1min	1500	V
Average output current	I_O	50Hz Square wave duty =1/2 Tc = 96°C	20 *	A
Non-repetitive forward surge current**	I_{FSM}	Sine wave, 10ms 1shot	80	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.)

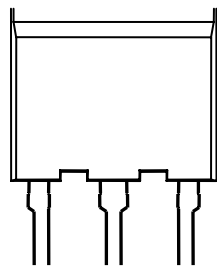
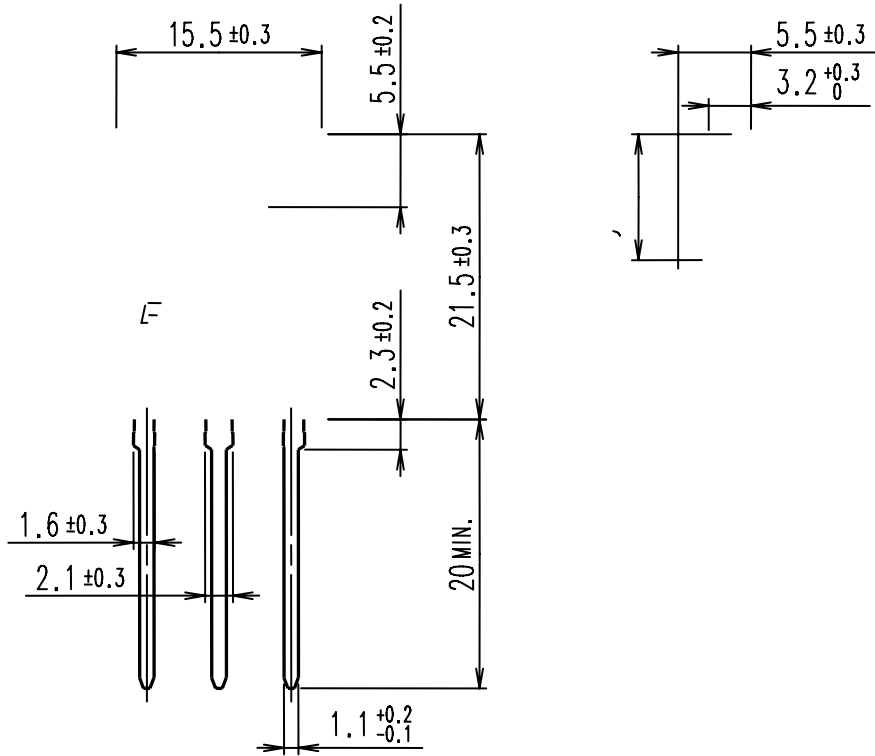
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	V_F	$I_F = 10\text{ A}$	1.2	V
Reverse current***	I_R	$V_R = V_{RRM}$	200	μA
Reverse recovery time***	Trr	$I_F = 0.1\text{A}, I_R = 0.2\text{A}, I_{rec} = 0.05\text{A}$	0.04	μs
Thermal resistance	Rth(j-c)	Junction to case	2.0	°C/W

Note*** Rating per element

● Mechanical characteristics

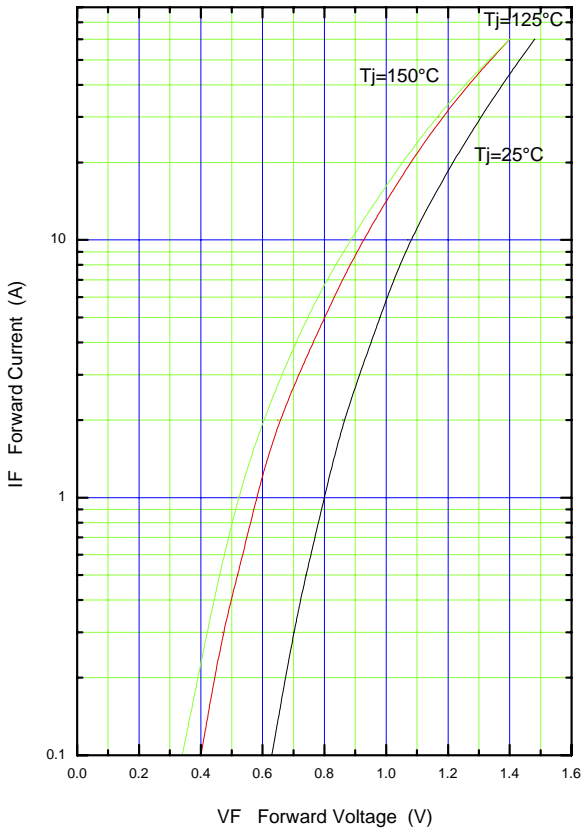
Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.4 to 0.6	N•m
Approximate mass	-	6	g

■ Outline Drawings [mm]

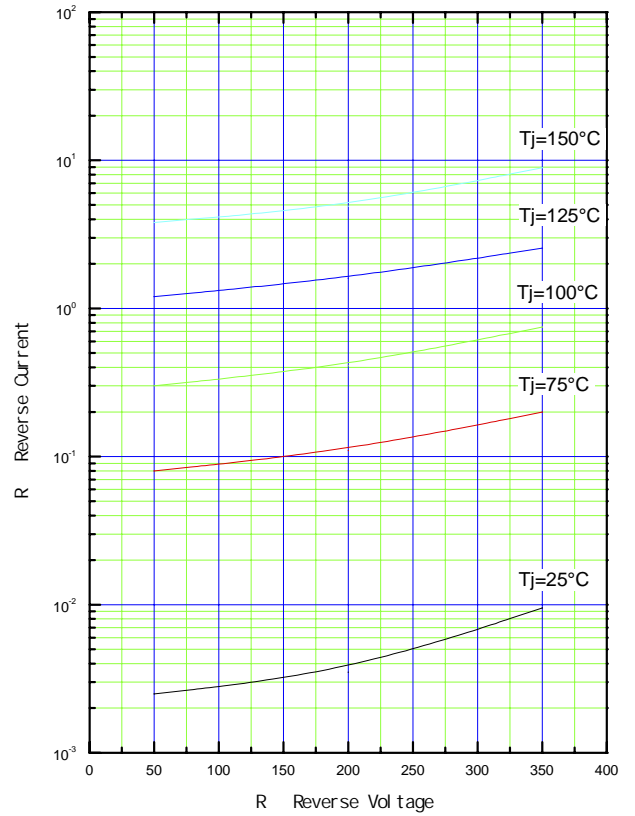


UNIT : mm
寸法単位 : mm

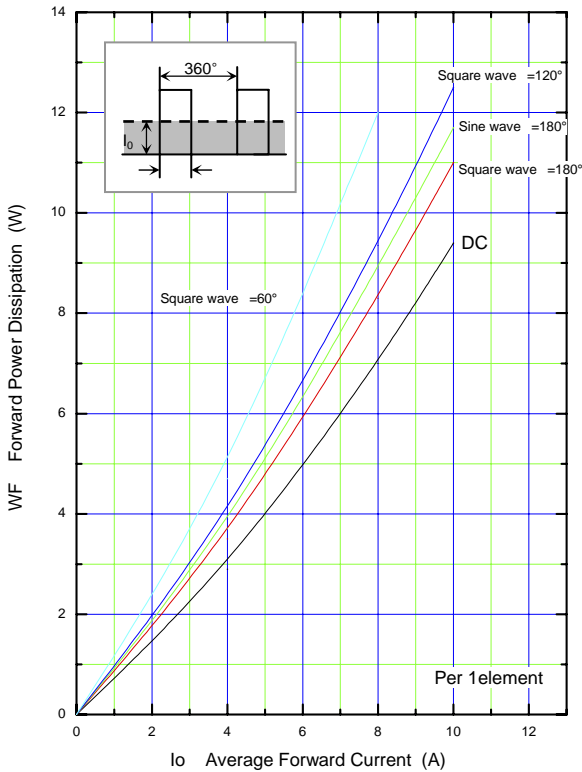
Forward Characteristic (typ.)



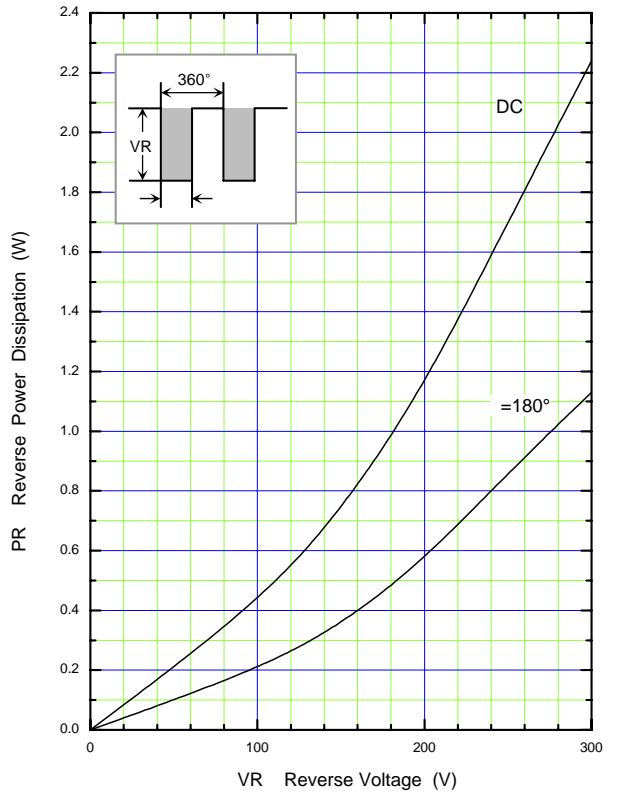
Reverse Characteristic (typ.)

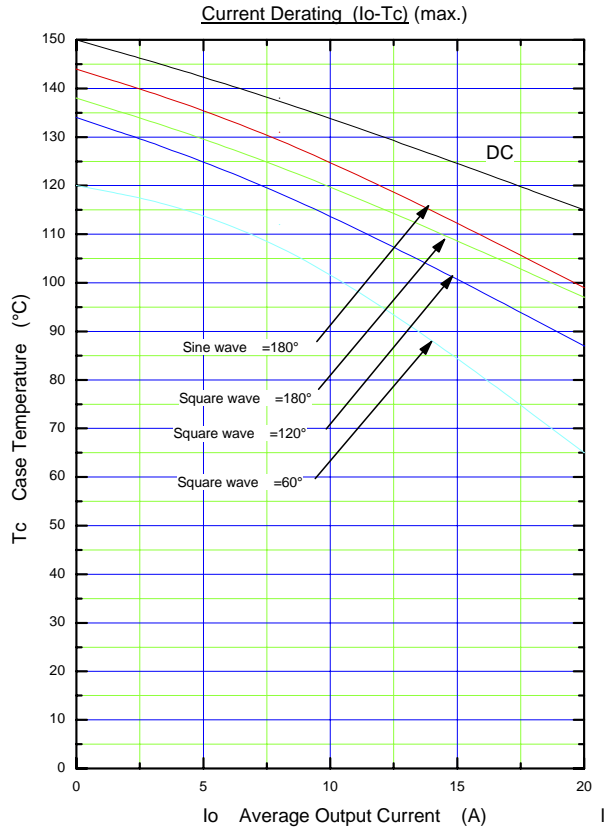


Forward Power Dissipation (max.)

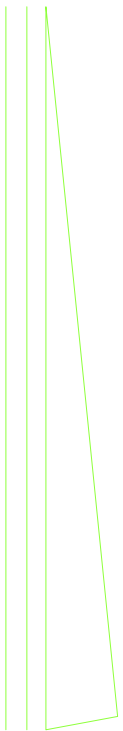
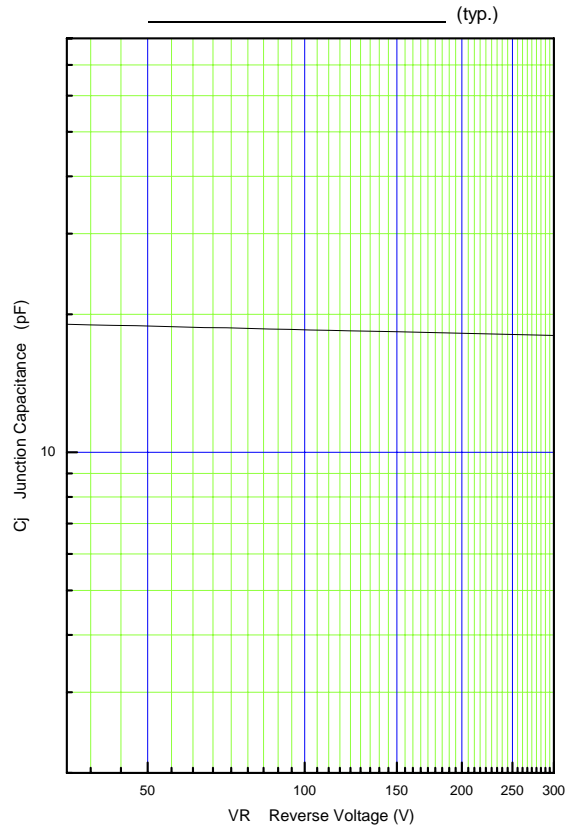


Reverse Power Dissipation (max.)

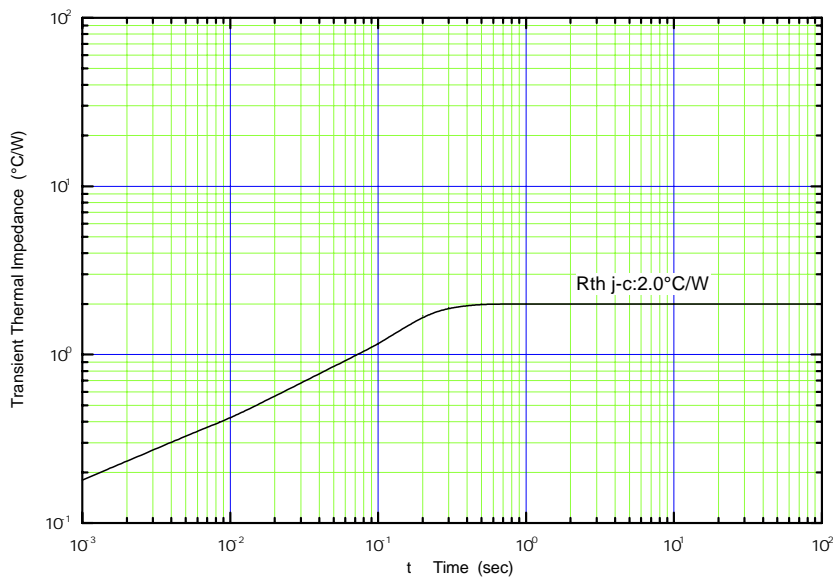




f : Conduction angle of forward current for each rectifier element
 I_o : Output current of center-tap full wave connection



Transient Thermal Impedance (max.)



WARNING

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 - Electrical home appliances
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