

# 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 <sub>RRM</sub>	-	300	V
Isolating voltage	Viso	Terminals-to-Case, AC.1min	1500	V
Average output current	I <sub>O</sub>	50Hz Square wave duty =1/2 T <sub>c</sub> = 96°C	20 *	A
Non-repetitive forward surge current**	I <sub>FSM</sub>	Sine wave, 10ms 1shot	80	A
Operating junction temperature	T <sub>J</sub>	-	150	°C
Storage temperature	T <sub>stg</sub>	-	-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 <sub>F</sub>	I <sub>F</sub> = 10 A	1.2	V
Reverse current***	I <sub>R</sub>	V <sub>R</sub> =V <sub>RRM</sub>	200	μA
Reverse recovery time***	T <sub>rr</sub>	I <sub>F</sub> = 0.1A, I <sub>R</sub> = 0.2A, I <sub>rec</sub> = 0.05A	0.04	μs
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case	2.0	°C/W

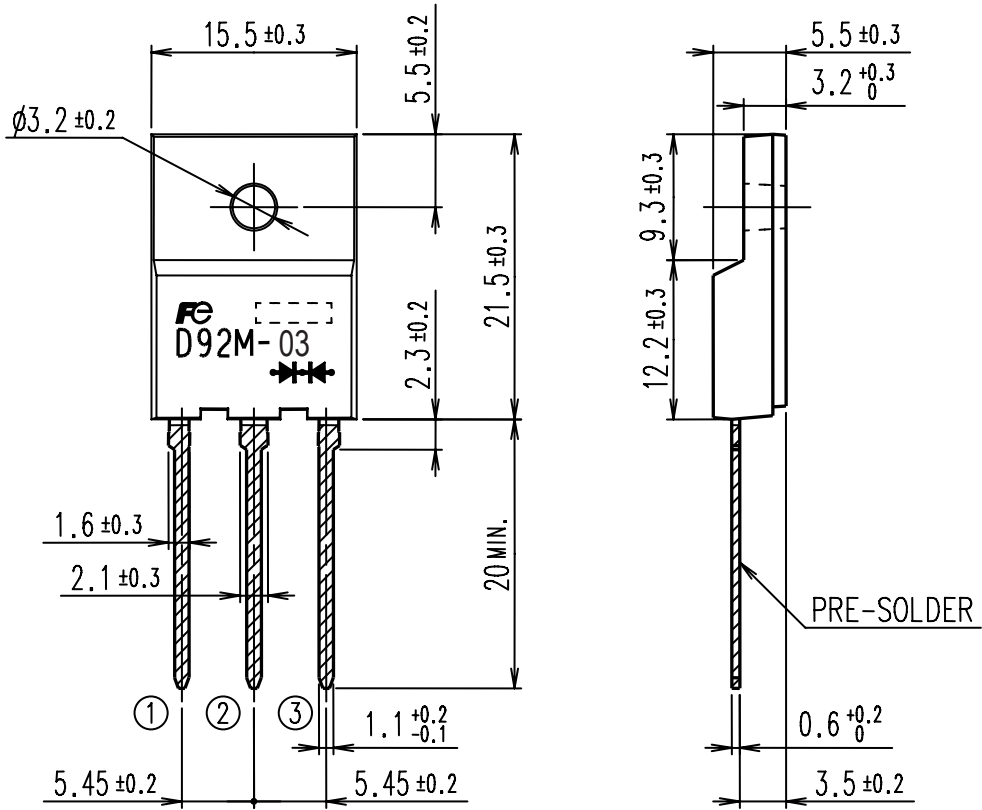
Note\*\*\* Rating per element

#### Mechanical characteristics

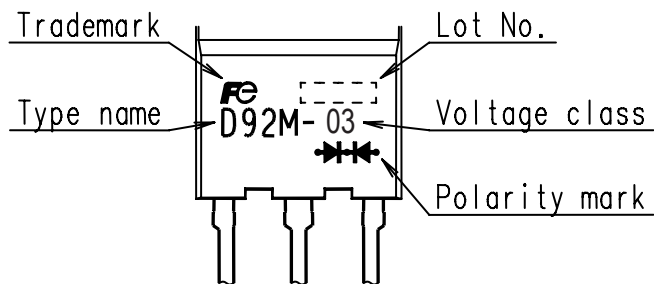
Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.4 to 0.6	N•m
Approximate mass	-	6	g

■ Outline Drawings [mm]

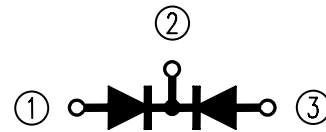
OUT VIEW



MARKING

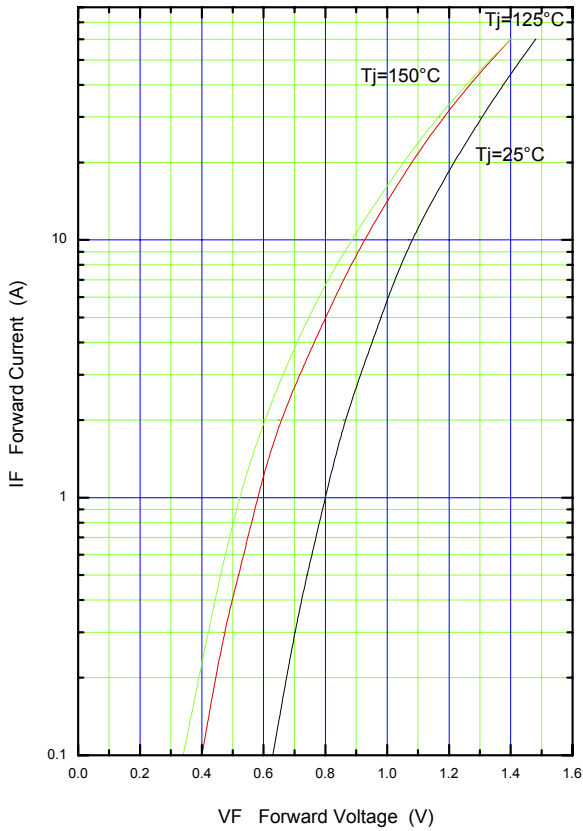


CONNECTION

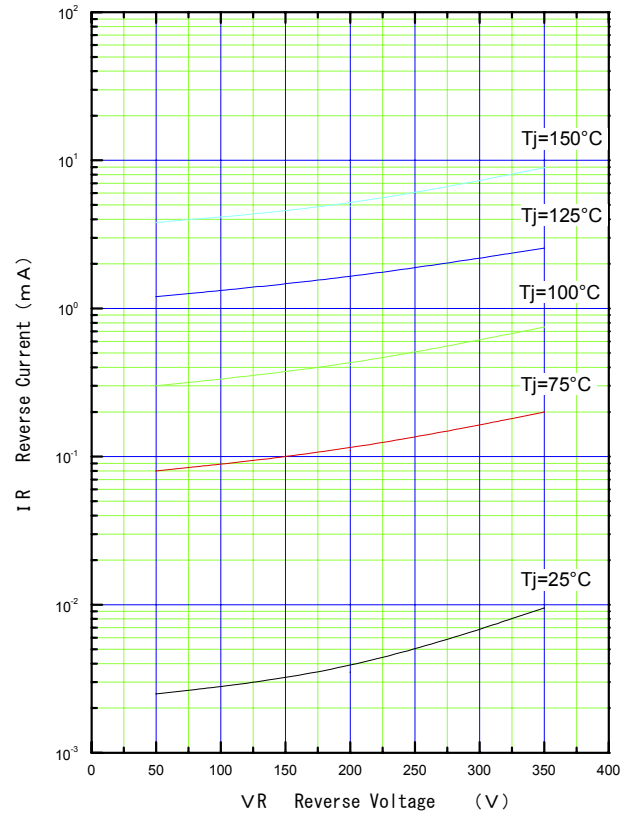


UNIT : mm

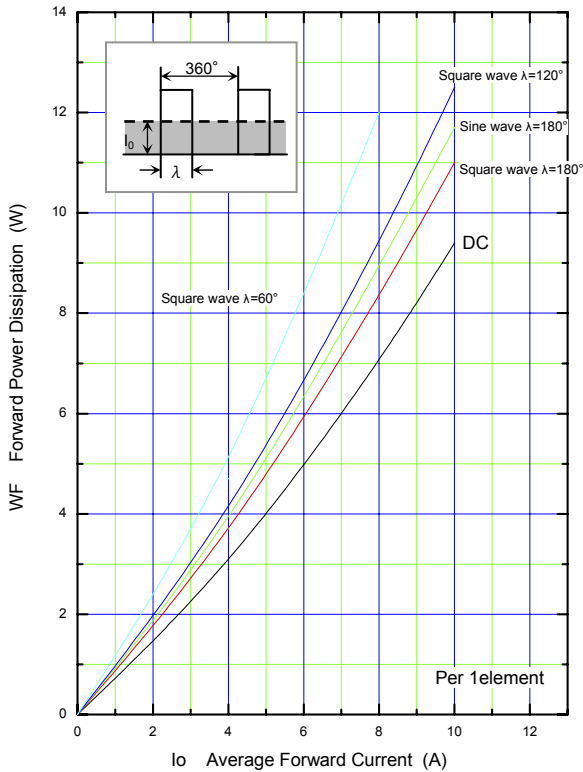
Forward Characteristic (typ.)



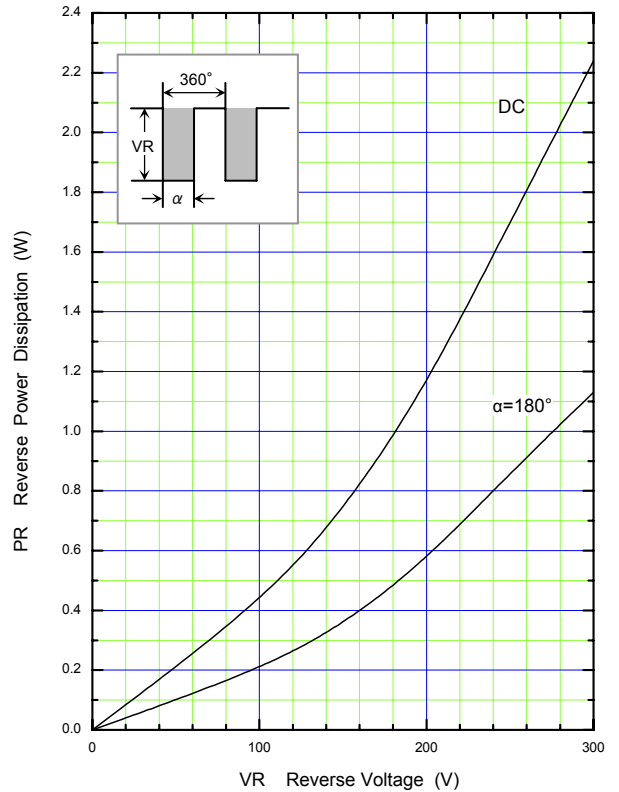
Reverse Characteristic (typ.)

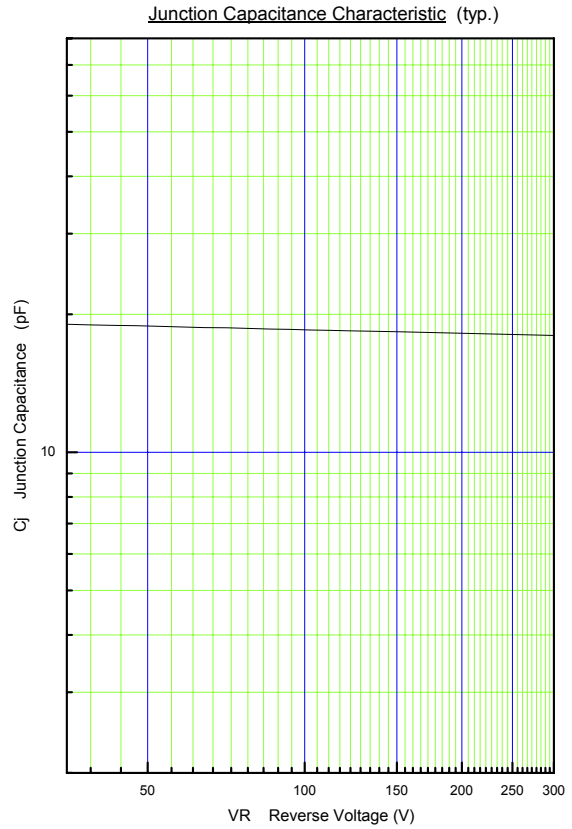
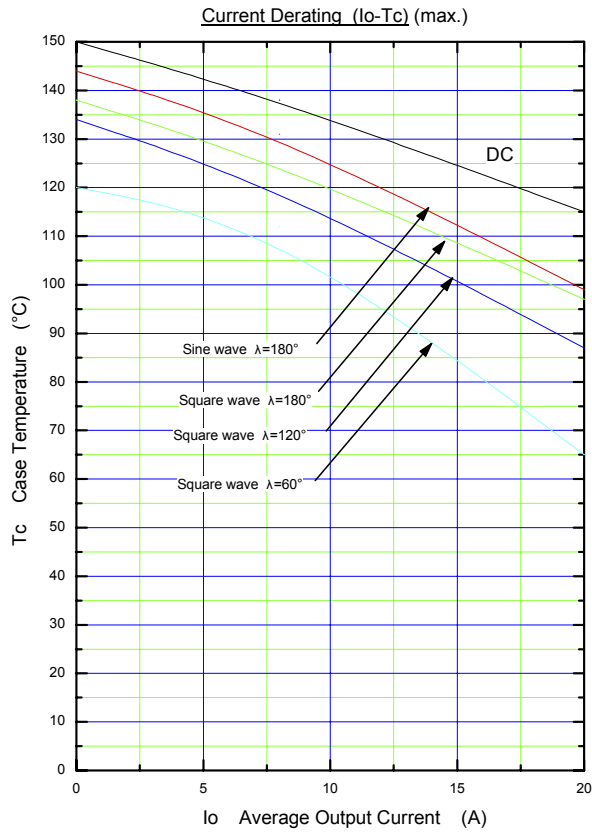


Forward Power Dissipation (max.)

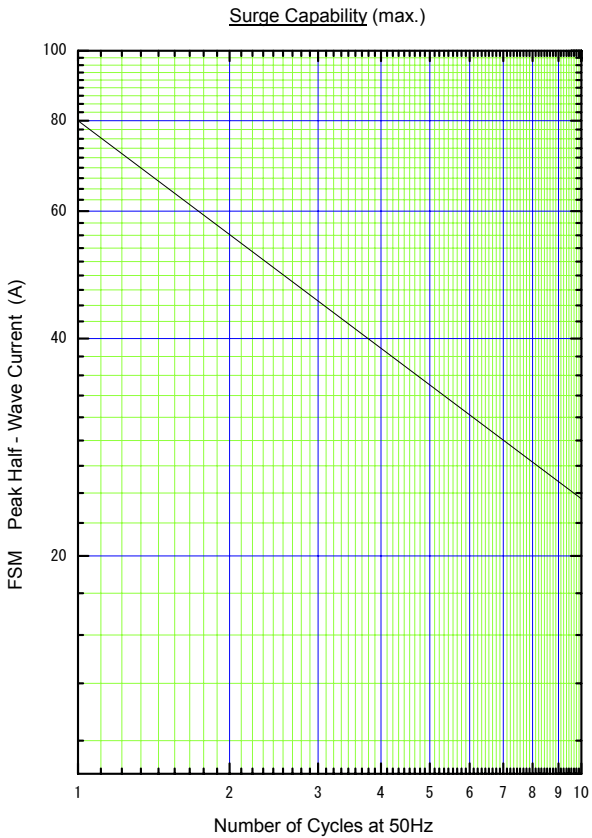


Reverse Power Dissipation (max.)

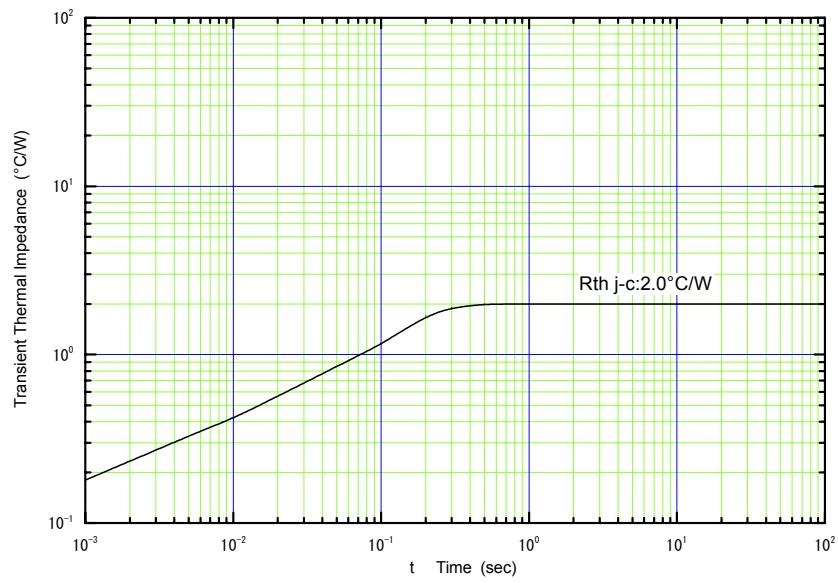




$f$ : Conduction angle of forward current for each rectifier element  
 $I_o$ : Output current of center-tap full wave connection



Transient Thermal Impedance (max.)



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