

# TP902C3R

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
Average output current	$I_o$	50Hz Square wave duty =1/2 Tc = 115°C	10*	A
Non-repetitive forward surge current**	$I_{FSM}$	Sine wave, 10ms 1shot	40	A
Operating junction temperature	$T_j$	-	150	°C
Storage temperature	$T_{stg}$	-	-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***	$V_F$	$I_F = 5A$	1.2	V
Reverse current***	$I_R$	$V_R = V_{RRM}$	100	μA
Reverse recovery time***	$t_{rr}$	$I_F=0.1A, I_R=0.2A, I_{rec}=0.05A$	0.035	μs
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.5	°C/W

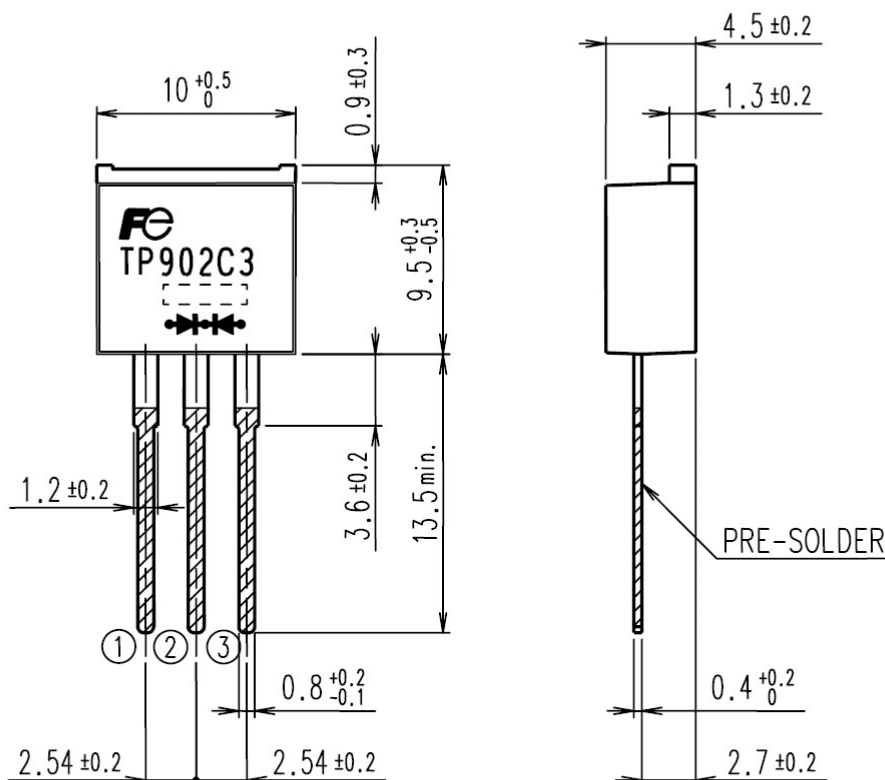
Note\*\*\* Rating per element

#### ● Mechanical characteristics

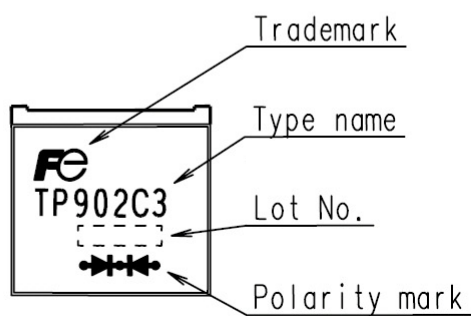
Item	Conditions	Maximum	Units
Approximate mass	-	1.6	g

■ Outline Drawings [mm]

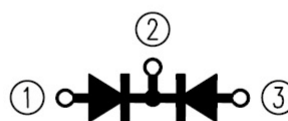
OUT VIEW



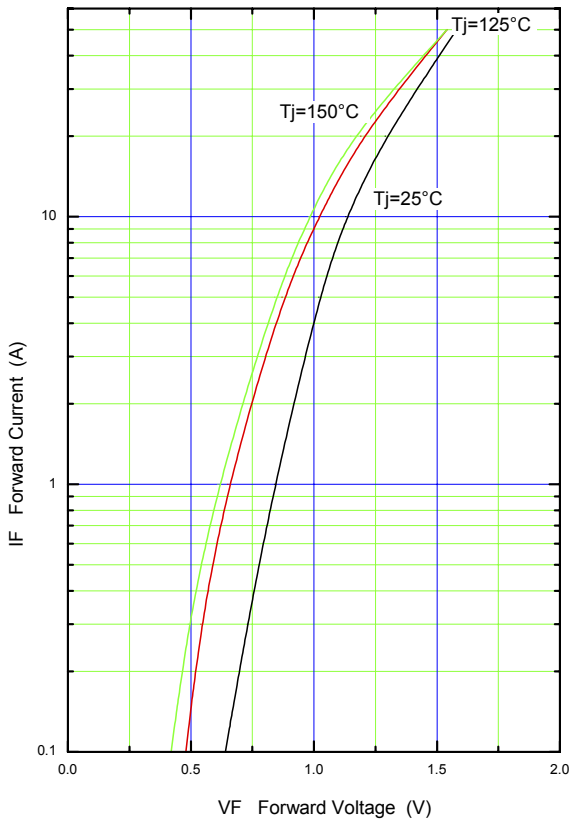
MARKING



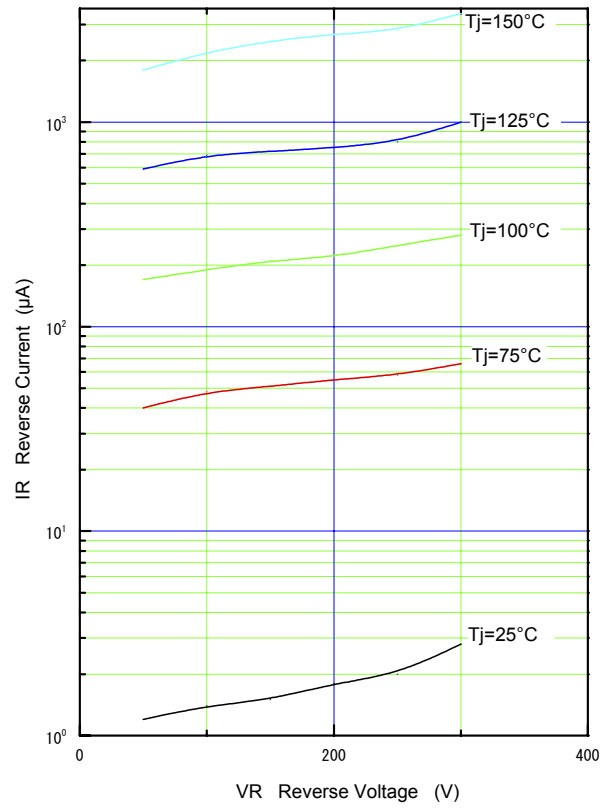
CONNECTION



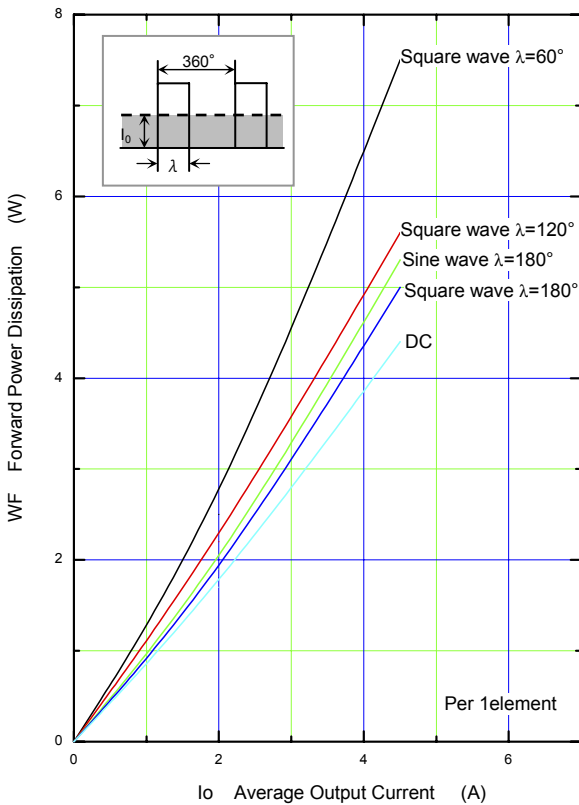
Forward Characteristic (typ.)



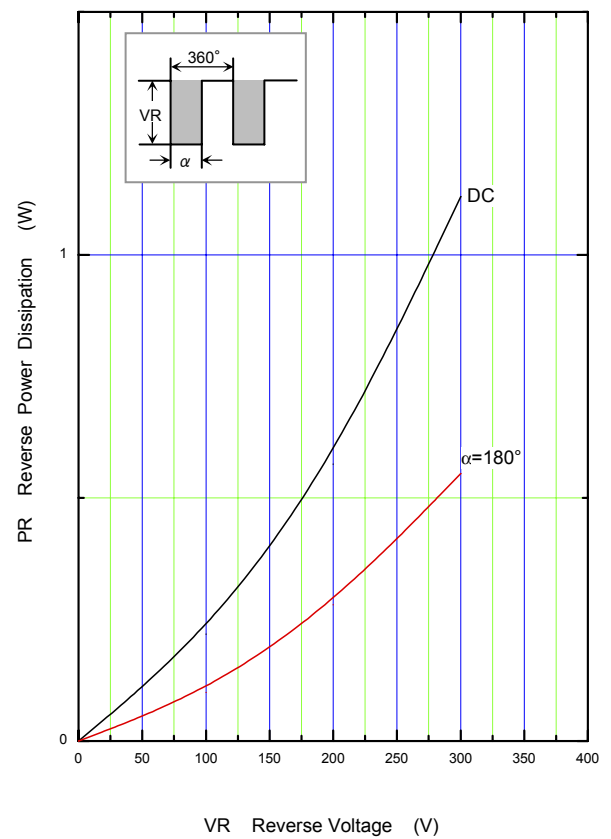
Reverse Characteristic (typ.)



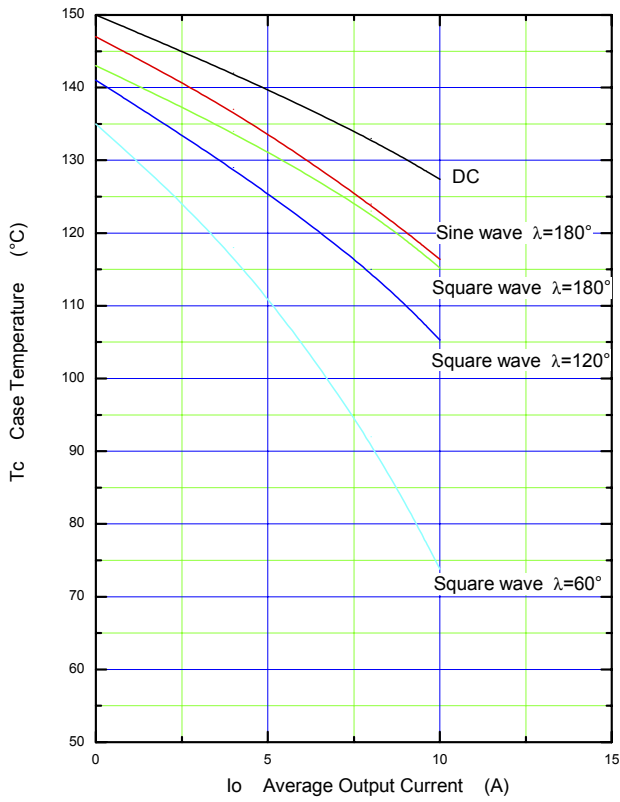
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

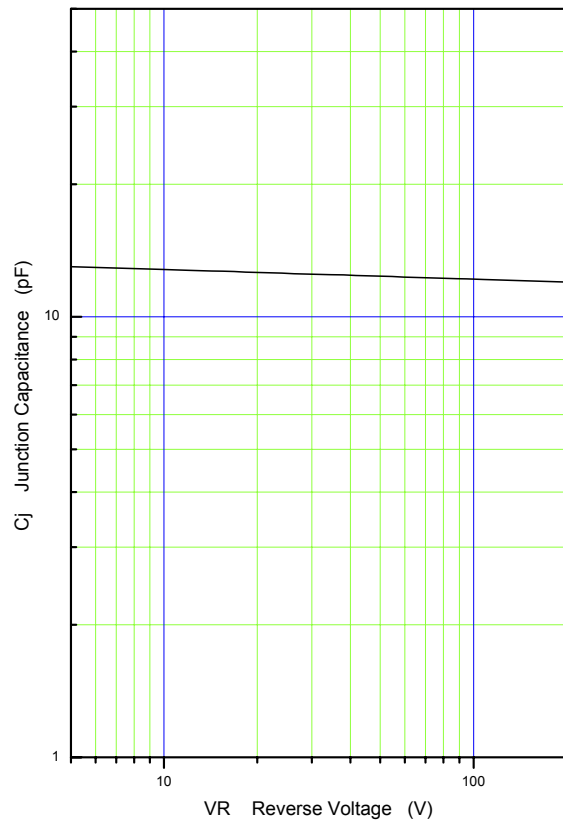


Current Derating (Io-Tc) (max.)

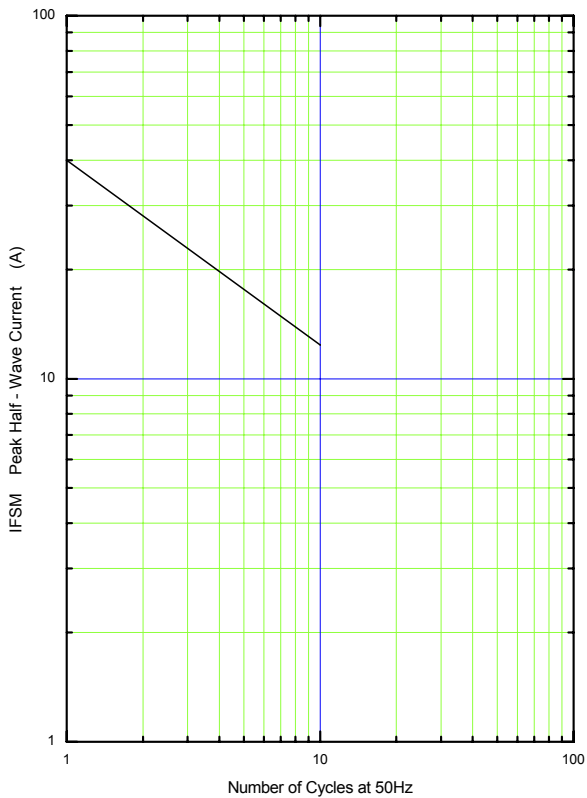


λ: Conduction angle of forward current for each rectifier element  
 Io: Output current of center-tap full wave connection

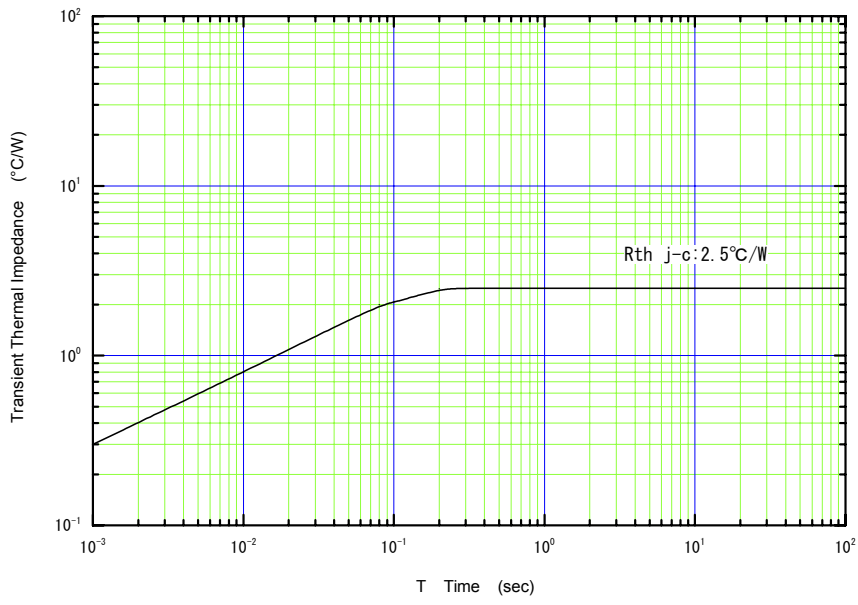
Junction Capacitance Characteristic (typ.)



Surge Capability (max.)



Transient Thermal Impedance (max.)



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