MS985C3

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	Io	Square wave duty =1/2 Tc = 118˚C	20*	A
Non-repetitive forward surge current**	I_{FSM}	Sine wave, 10ms 1shot	110	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 A	1.3	V
Reverse current***	I_R	V_R =V_{RRM}	35	μA
Reverse recovery time***	trr	I_F =0.1A, I_R =0.2A, Irec =0.05A	0.04	μS
Thermal resistance	Rth(j-c)	Junction to case	1.25	˚C/W

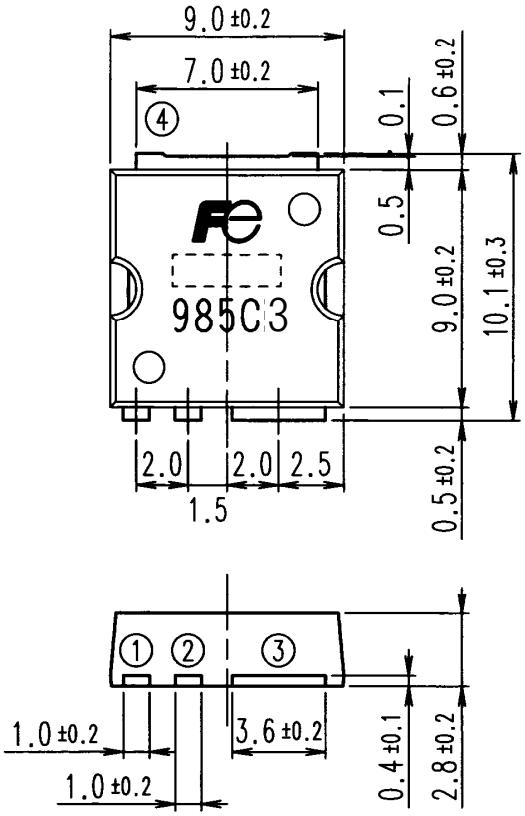
Note*** Rating per element

● **Mechanical characteristics**

Item	Conditions	Maximum	Units
Approximate mass	-	0.8	g

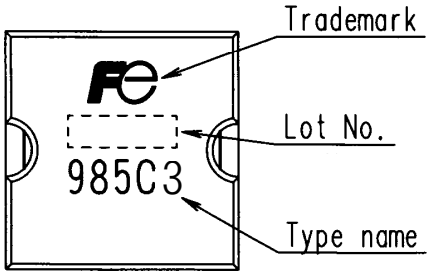
■ Outline Drawings [mm]

OUT VIEW

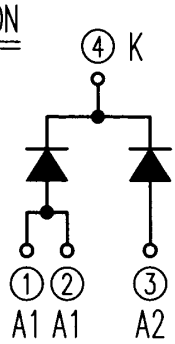


DIMENSIONS ARE IN MILLIMETERS.

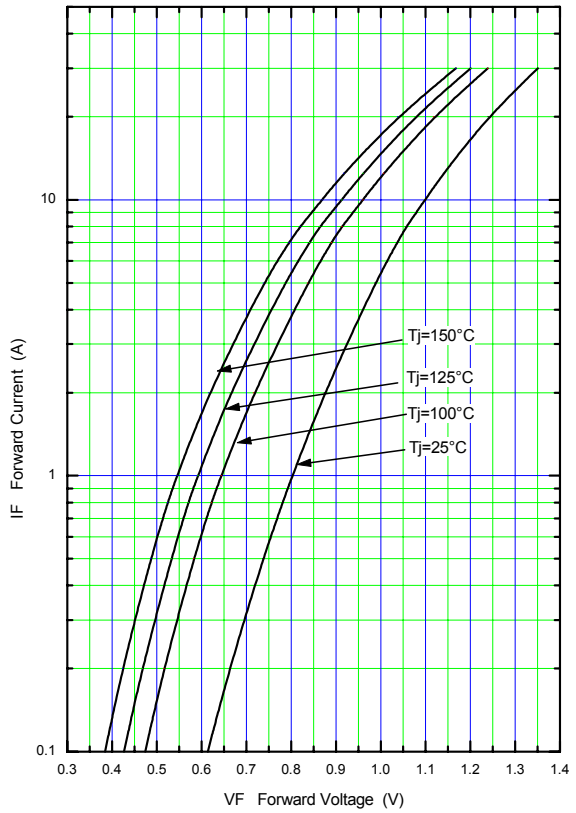
MARKING



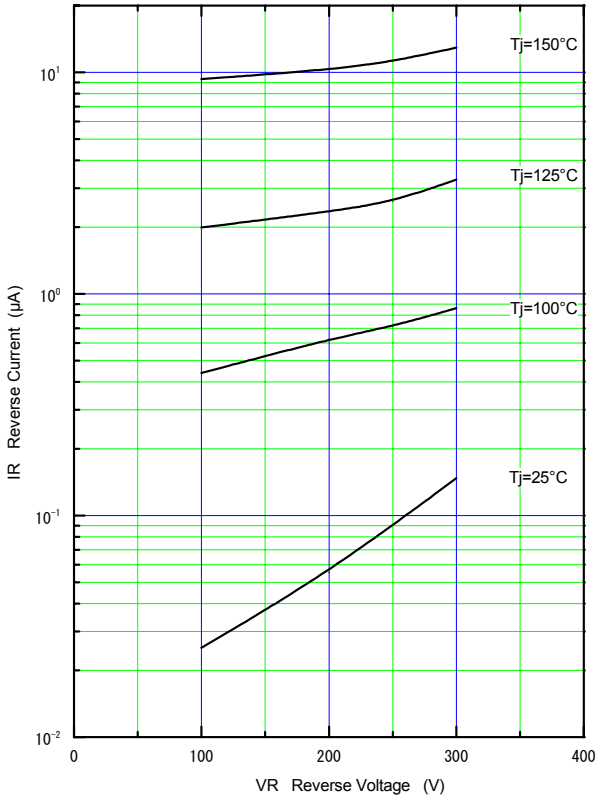
CONNECTION



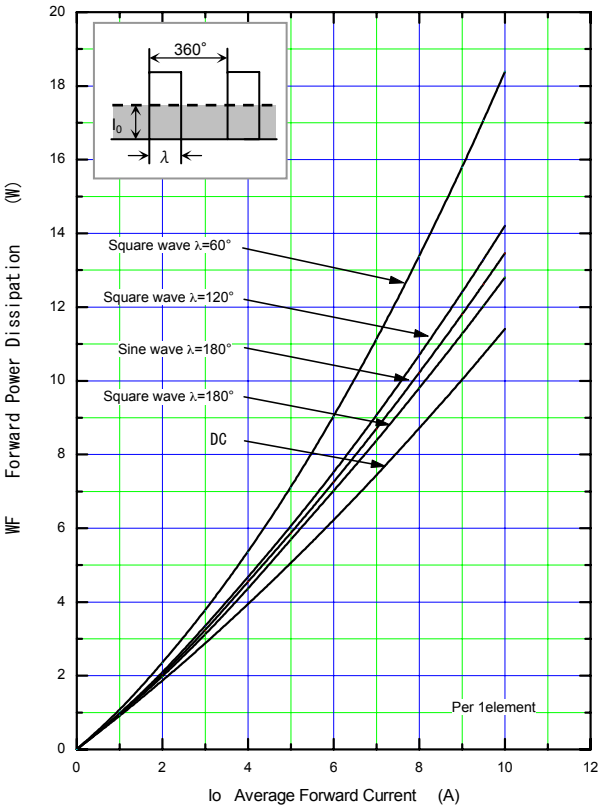
Forward Characteristic (typ.)



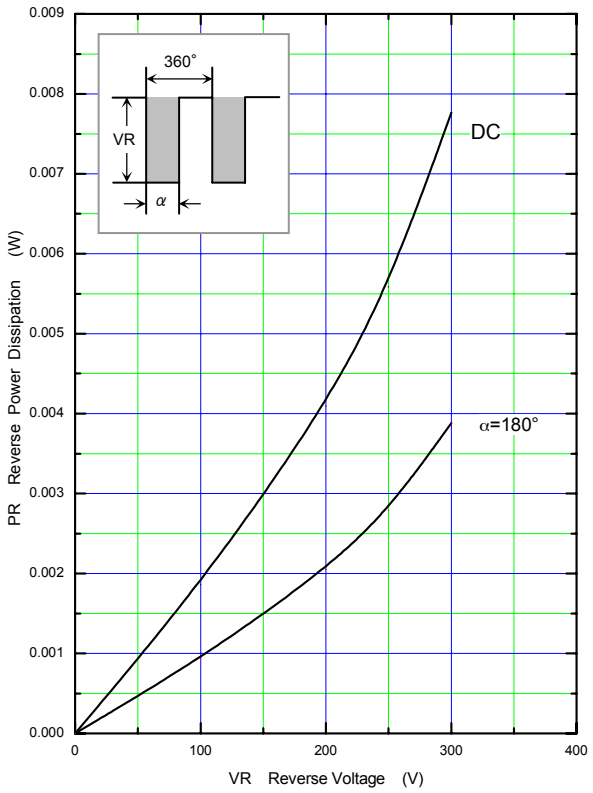
Reverse Characteristic (typ.)



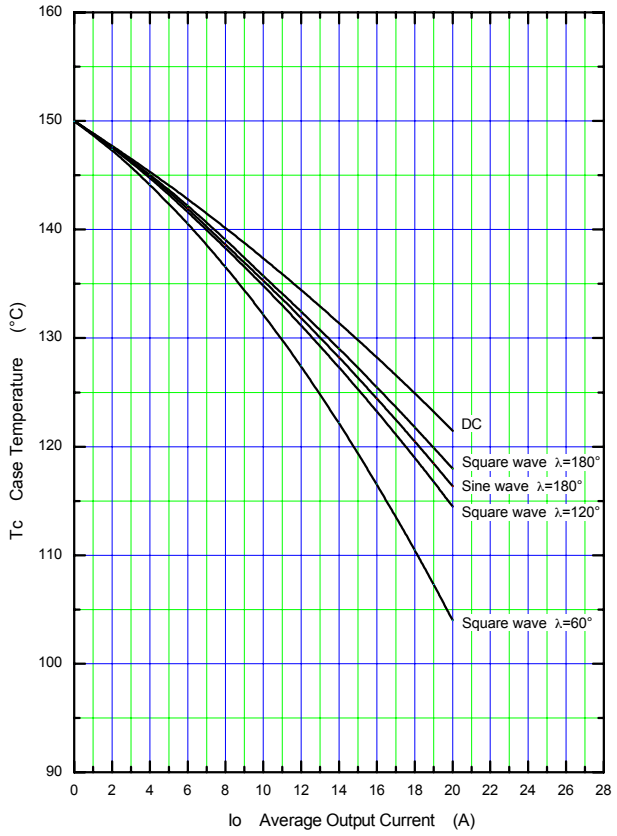
Forward Power Dissipation(max.)



Reverse Power Dissipation(max.)

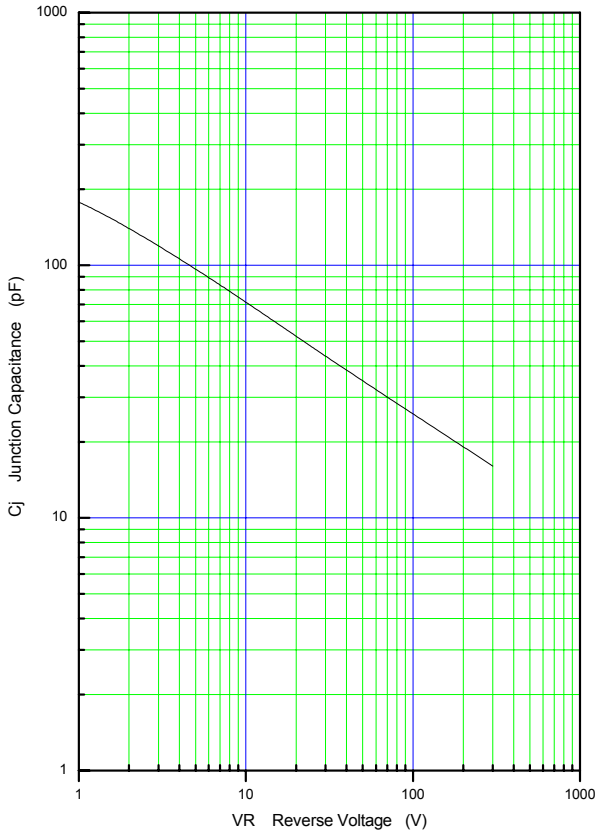


Current Derating (Io-Tc)(max.)

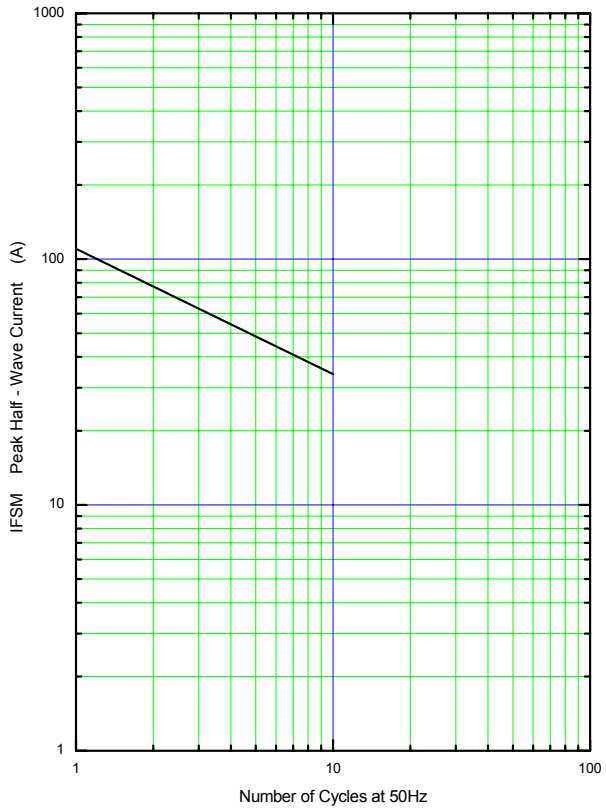


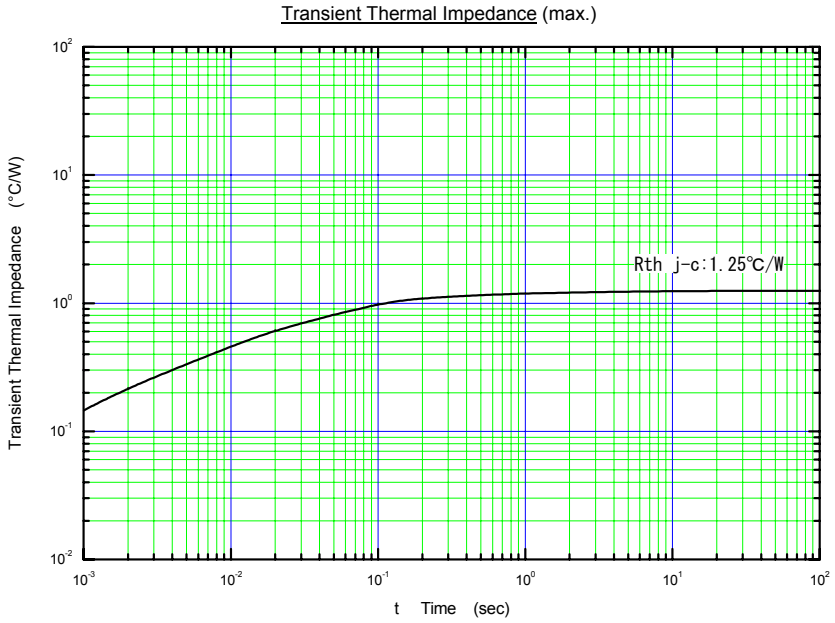
λ:Conduction angle of forward current for each rectifier element
Io:Output current of center-tap full wave connection

Junction Capacitance Characteristic (typ.)



Surge Capability(max.)




Transient Thermal Impedance (max.)
Transient Thermal Impedance (°C/W)
10^2
10^1
10^0
10^{-1}
10^{-2}
Rth j-c:1.25°C/W
10^{-3}
10^{-2}
10^{-1}
10^0
10^1
10^2
t Time (sec)

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