

TS982C3R

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	Vrrm	-	300	V
Average output current	lo	50Hz Square wave duty =1/2 Tc = 128°C	10 *	A
Non-repetitive forward surge current**	IFSM	Sine wave, 10ms 1shot	90	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***	VF	I _F = 5 A	1.3	V
Reverse current***	IR	Vr =Vrrm	20	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	1.75	°C/W

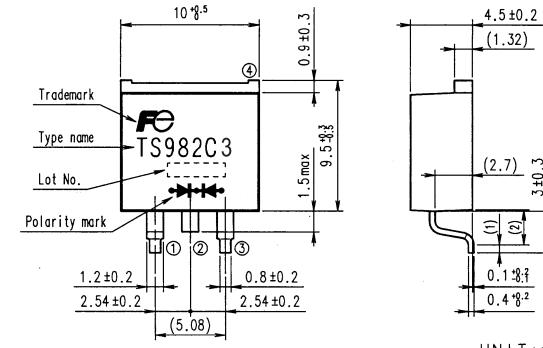
Note*** Rating per element

Mechanical characteristics

Item	Conditions	Maximum	Units
Approximate mass	-	1.6	g

Outline Drawings [mm]

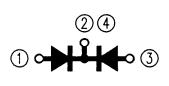
OUT VIEW

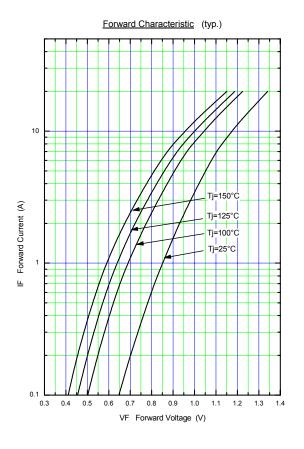


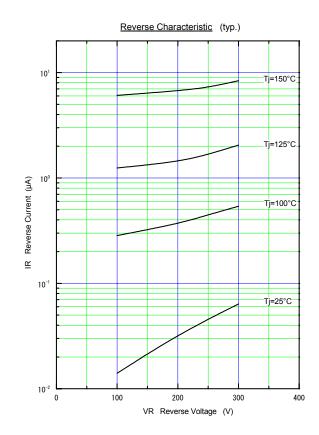
UNIT:mm

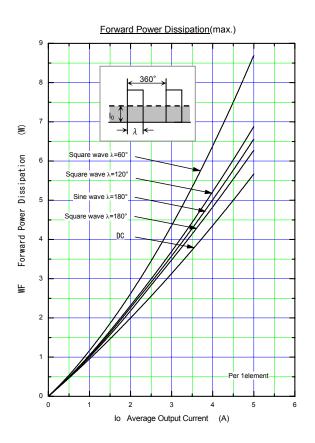
 3 ± 0.3

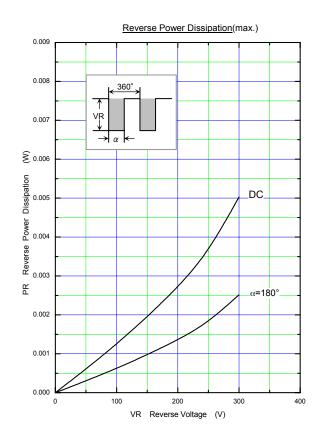
CONNECTION

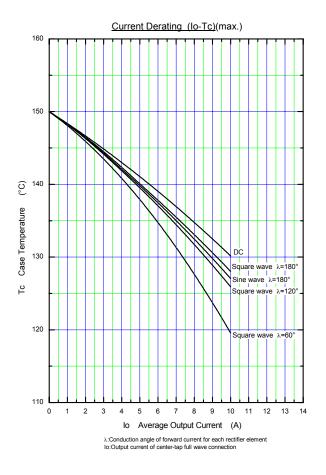


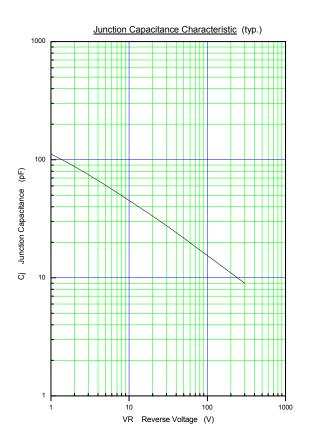


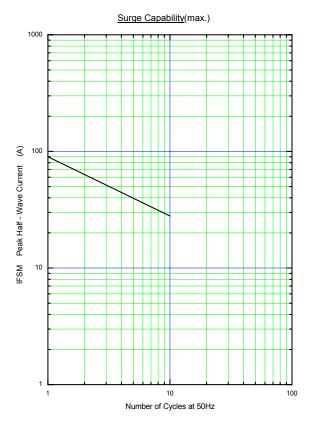


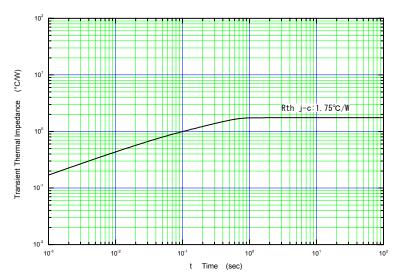












Transient Thermal Impedance (max.)

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