

YG982C4R

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	-	400	V
Isolating voltage	Viso	Terminals-to-case, AC.1min	1500	V
Average output current	lo	50Hz Square wave duty =1/2 Tc = 107°C	10 *	A
Non-repetitive forward surge current**	IFSM	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.)

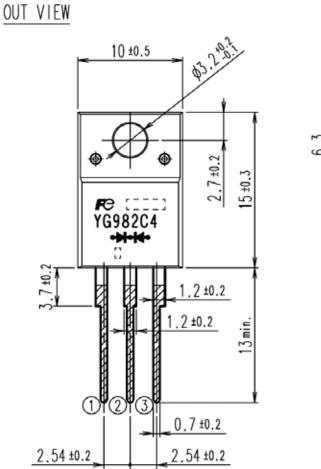
Forward voltage*** VF IF =5 A 1.45 V Reverse current*** IR VR =VRRM 20 μA Reverse recovery time*** trr IF =0.1A, IR =0.2A, Irec =0.05A 0.05 μS Thermal resistance Pth(i.e) Junction to account 2 °C(M/	Item	Symbols	Conditions	Maximum	Units
Reverse recovery time*** trr IF = 0.1A, IR = 0.2A, Irec = 0.05A 0.05 μS	Forward voltage***	VF	I⊧ =5 A	1.45	V
	Reverse current***	IR	Vr =Vrrm	20	μA
Thermal registrance Dth(i, a) lungtion to appa 2 °C/W	Reverse recovery time***	trr	IF =0.1A, IR =0.2A, Irec =0.05A	0.05	μS
Rul(J-c) Junction to case 5 C/W	Thermal resistance	Rth(j-c)	Junction to case	3	°C/W

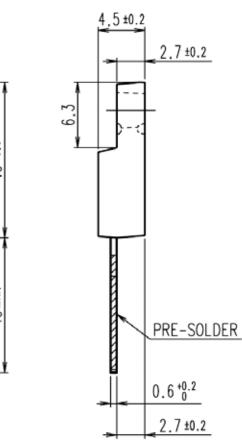
Note*** Rating per element

Mechanical characteristics

Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.3 to 0.5	N•m
Approximate mass	-	1.7	g

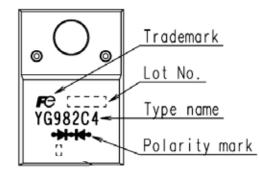
Outline Drawings [mm]



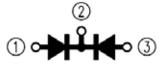


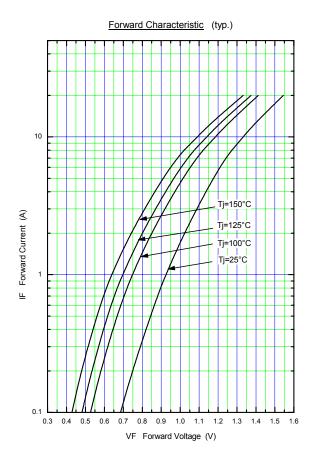
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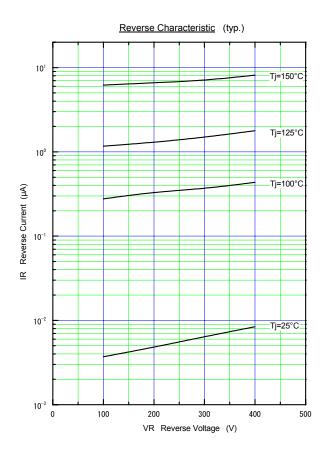
MARKING

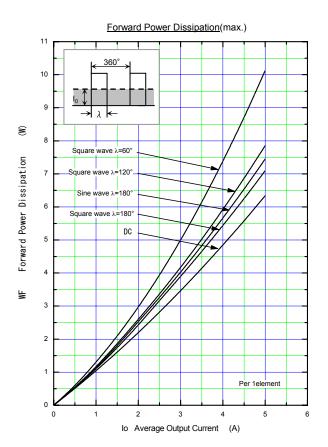


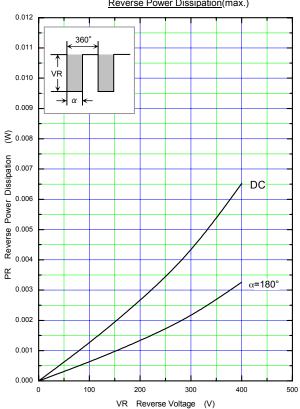
CONNECTION



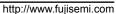


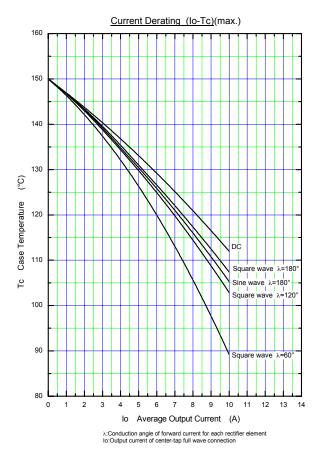


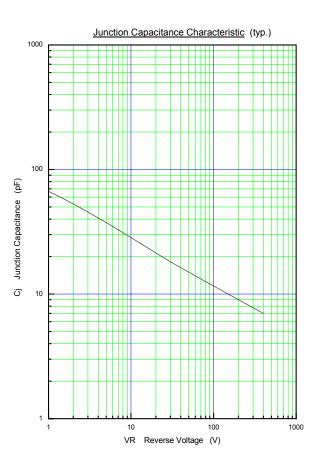


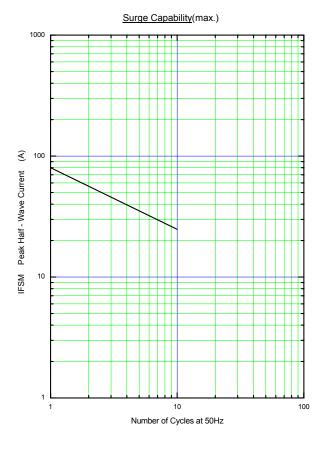


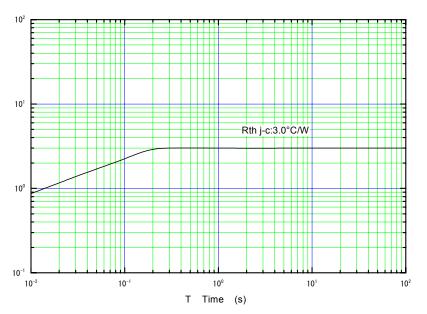
Reverse Power Dissipation(max.)











Transient Thermal Impedance (max.)

WARNING

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