

PG985C6R (600V, 20A)

FUJI Diode

Super LLD III (For CCM-PFC) Low Loss Super Hight Speed Rectifier

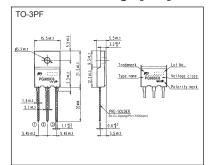
■ Features

- Lower power loss by higher switching speed and also lower V_F than conventional type
- · Soft recovery and low noise

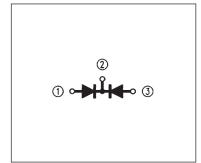
Applications

• PFC circuit (current continuous mode)

■ Outline Drawings [mm]



■ Connection diagram



■ Maximum Ratings and Characteristics

Maximum ratings (at Ta=25°C Unless otherwise specified)

Item	Symbols	Conditions	Ratings	Units
Repetitive peak reverse voltage	V _{RRM}		600	V
Isolating voltage	Viso	Terminals-to-case, AC.1min	1500	V
Average output current	lo	Square wave duty =1/2 Tc =47°C, 50Hz	20 *	А
Non-repetitive surge current **	IFSM	Sine wave, 10ms 1shot	50	А
Operating junction temperature	T _j		150	°C
Storage temperature	Tstg		-40 to +150	°C

^{*}Out put current of center tap full wave connection.

● Electrical characteristics (at Ta=25°C Unless otherwise specified)

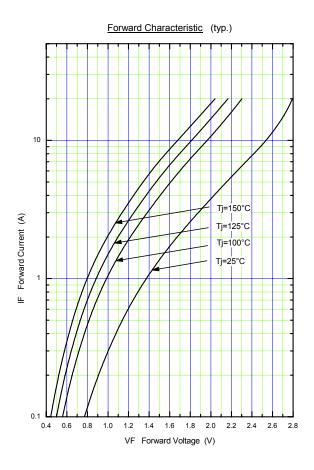
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	VF	I _F = 10A	3	V
Reverse current***	IR	$V_R = V_{RRM}$	30	μA
Reverse recovery time***	trr	I _F = 0.1A, I _R = 0.2A, I _{rec} = 0.05A	0.028	μs
Thermal resistance	Rth(j-c)	Junction to case	2	°C/W

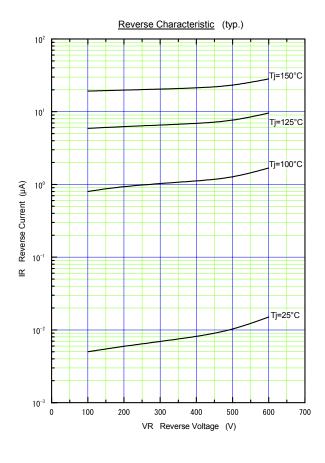
^{***}Rating per element

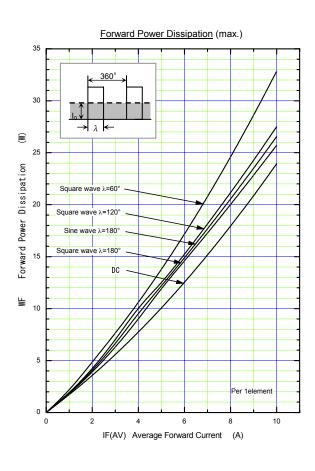
Mechanical characteristics

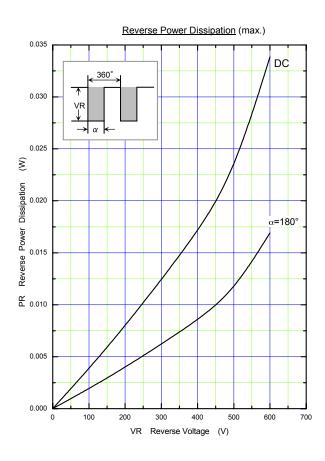
Item	Conditions	Ratings	Units
Mounting torque	Recommended torque	0.4 to 0.6	N•m
Approximate mass		6.0	g

^{**}Rating per element

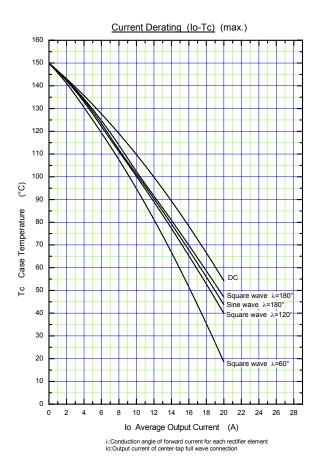


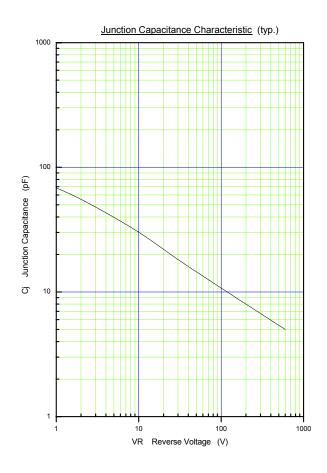


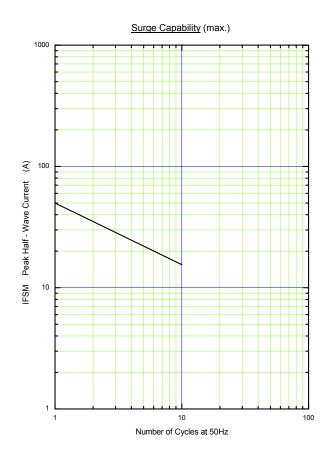




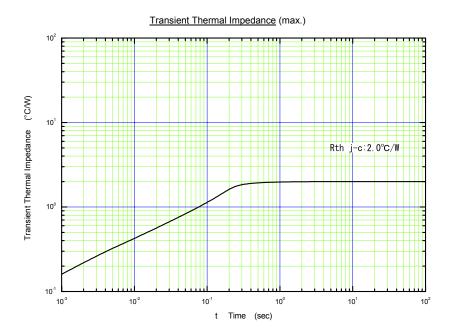
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WARNING

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- Communications equipment (terminal devices)
- Measurement equipment

- Machine tools
- Audiovisual equipment
- Electrical home appliances Personal equipment
- Industrial robots etc.
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- Safety devices

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- Nuclear control equipment

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