

# YA981S6R

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	$V_{RRM}$	-	600	V
Average forward current	$I_{FAV}$	50Hz Square wave duty =1/2 Tc = 99°C	8	A
Non-repetitive forward surge current	$I_{FSM}$	Sine wave, 10ms 1shot	40	A
Operating junction temperature	Tj	-	150	°C
Storage temperature	Tstg	-	-40 to +150	°C

#### ● Electrical characteristics (at Ta=25°C unless otherwise specified.)

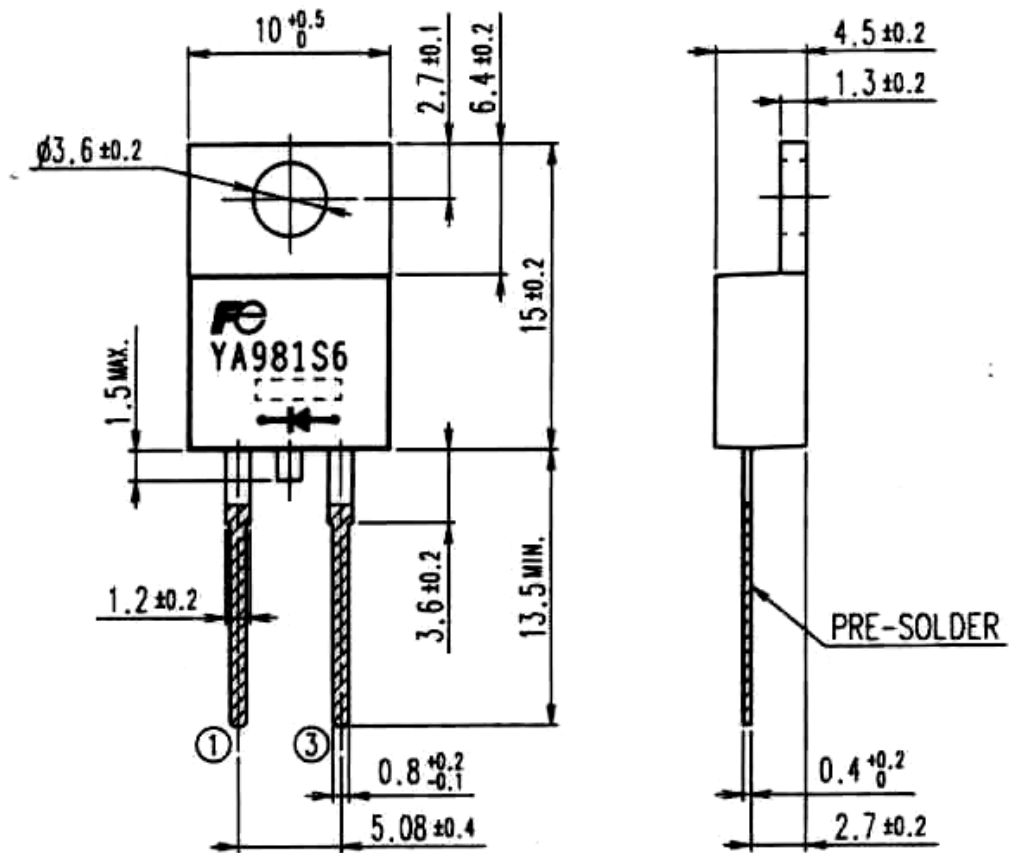
Item	Symbols	Conditions	Maximum	Units
Forward voltage	$V_F$	$I_F = 8\text{ A}$	3.0	V
Reverse current	$I_R$	$V_R = V_{RRM}$	25	μA
Reverse recovery time	trr	$I_F = 0.1\text{A}$ , $I_R = 0.2\text{A}$ , $I_{rec} = 0.05\text{A}$	0.026	μS
Thermal resistance	Rth(j-c)	Junction to case	2.5	°C/W

#### ● Mechanical characteristics

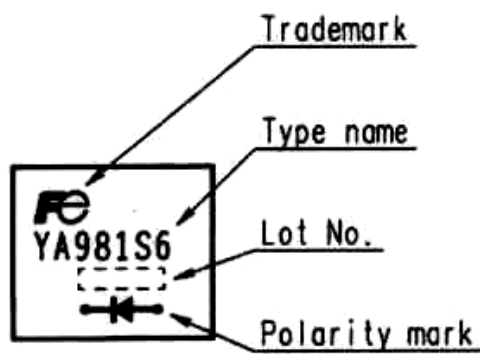
Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.3 to 0.5	N·m
Approximate mass	-	2.0	g

■ Outline Drawings [mm]

OUT VIEW



MARKING

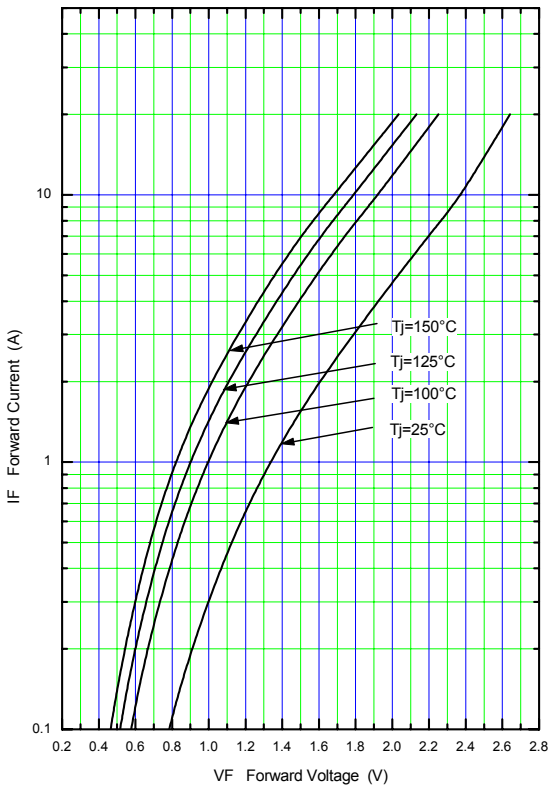


CONNECTION

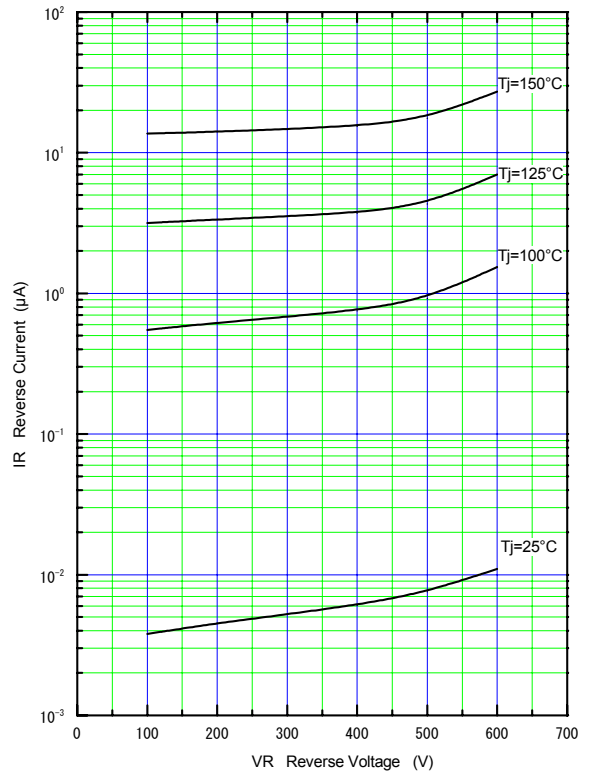


UNIT : mm

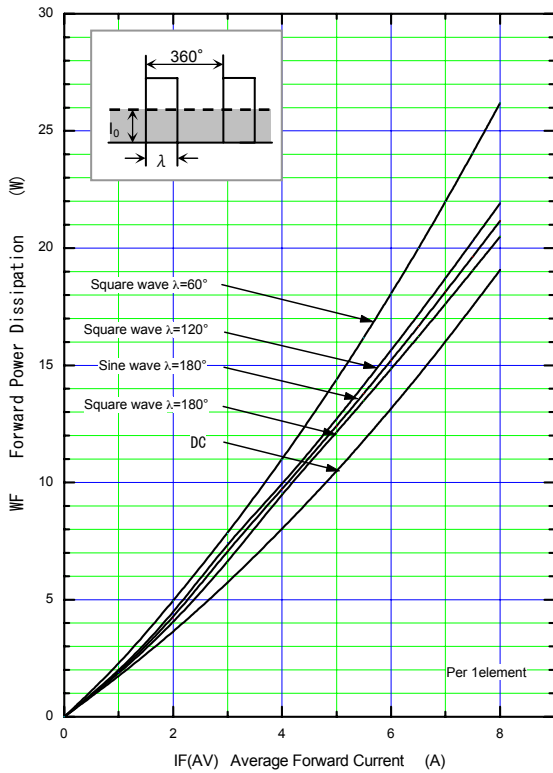
Forward Characteristic (typ.)



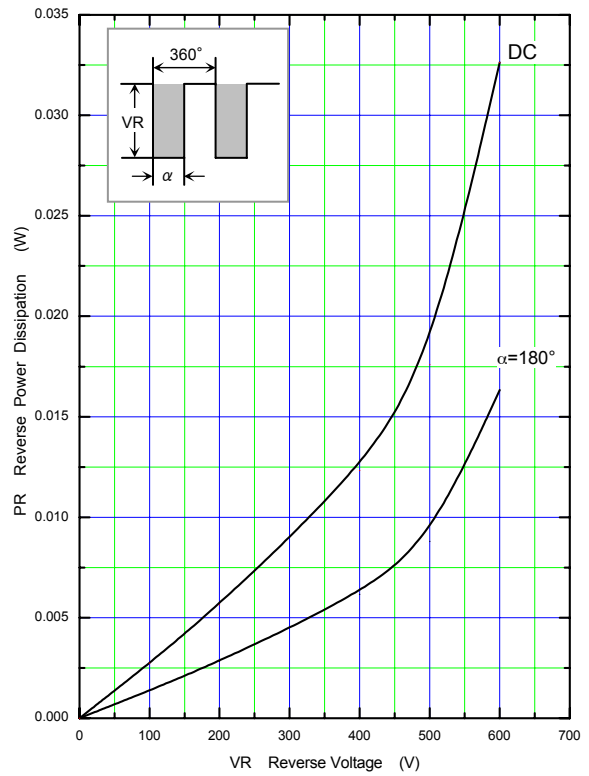
Reverse Characteristic (typ.)

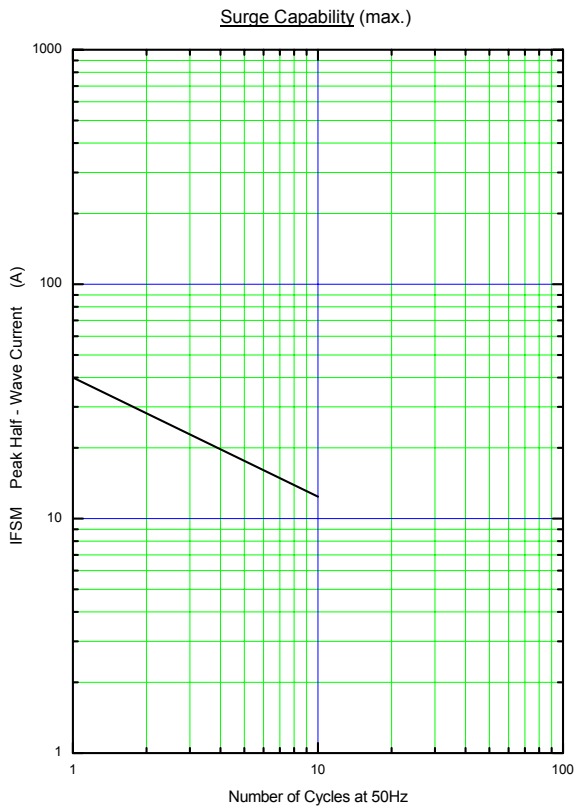
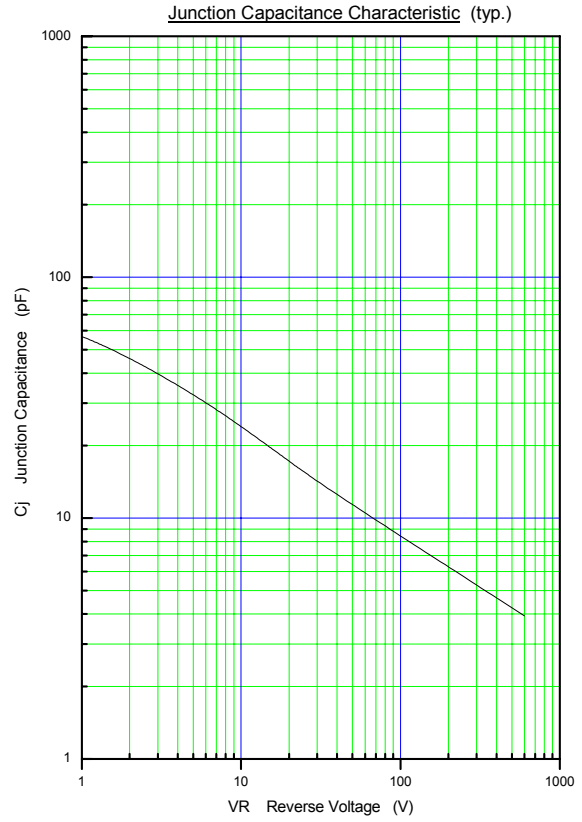
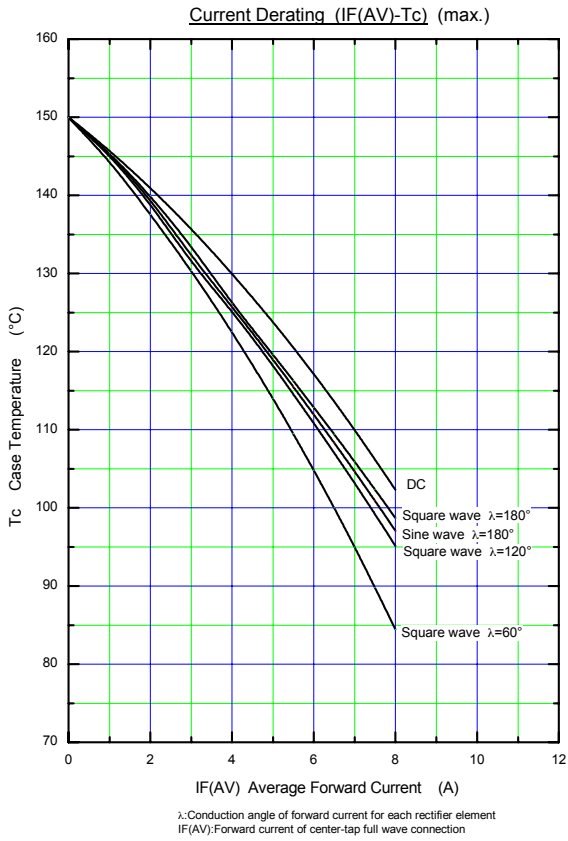


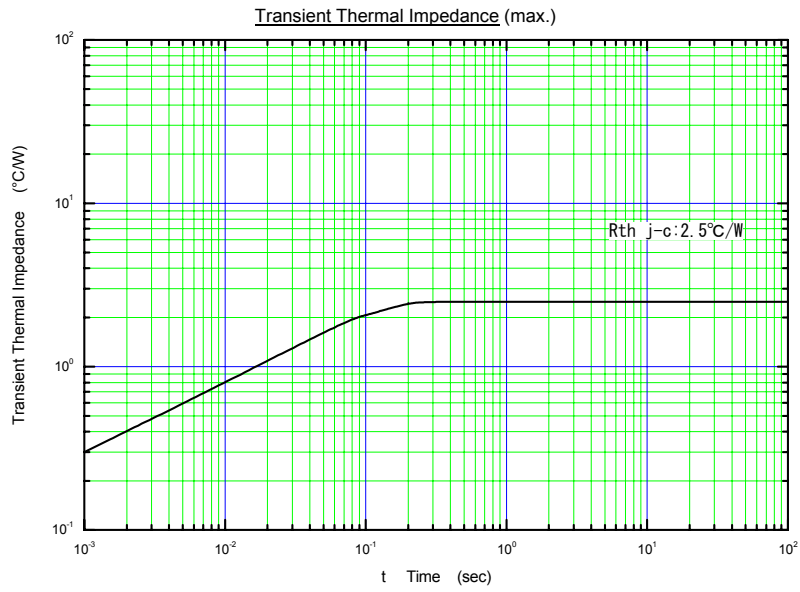
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)







## 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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  - Traffic-signal control equipment
  - Gas leakage detectors with an auto-shut-off feature
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  - Safety devices
  - Medical equipment
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