

YA982S6R

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	10	A
Non-repetitive forward surge current	I_{FSM}	Sine wave, 10ms 1shot	50	A
Operating junction temperature	Tj	-	150	°C
Storage temperature	Tstg	-	-40 to +150	°C

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

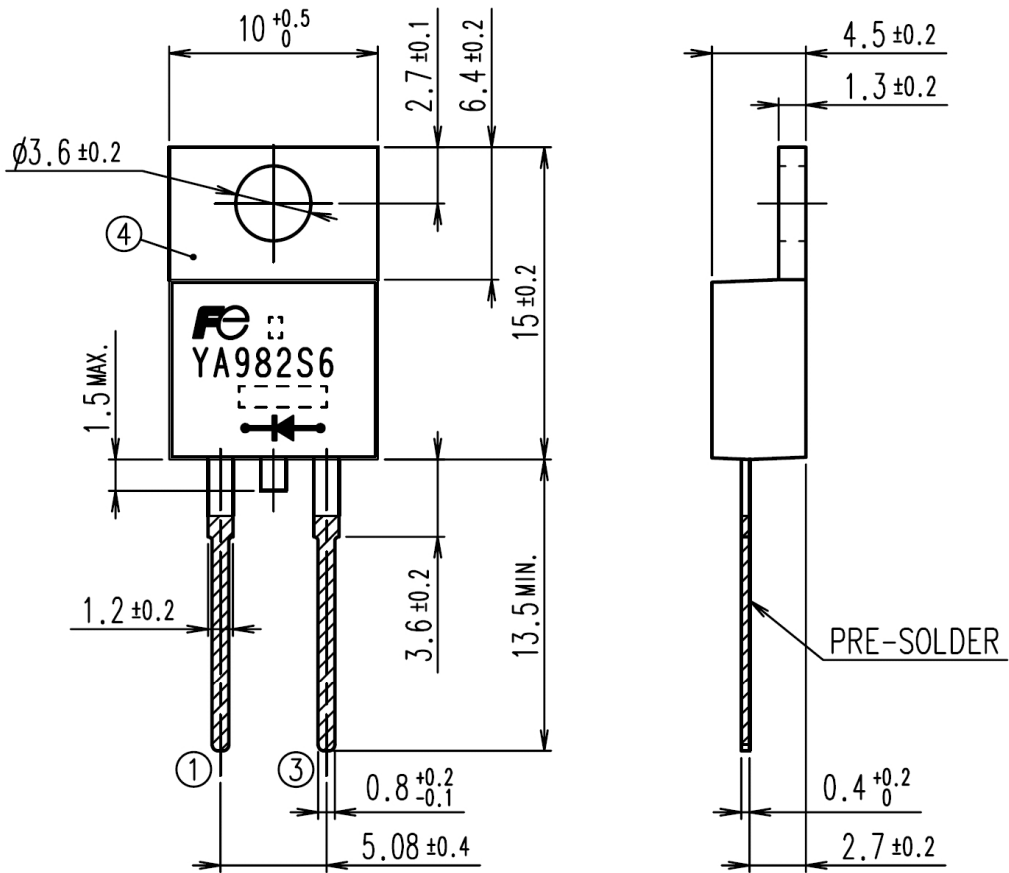
Item	Symbols	Conditions	Maximum	Units
Forward voltage	V_F	$I_F = 10\text{ A}$	3.0	V
Reverse current	I_R	$V_R = V_{RRM}$	30	μA
Reverse recovery time	trr	$I_F = 0.1\text{ A}$, $I_R = 0.2\text{ A}$, $I_{rec} = 0.05\text{ A}$	0.028	μs
Thermal resistance	Rth(j-c)	Junction to case	2.0	°C/W

● Mechanical characteristics

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

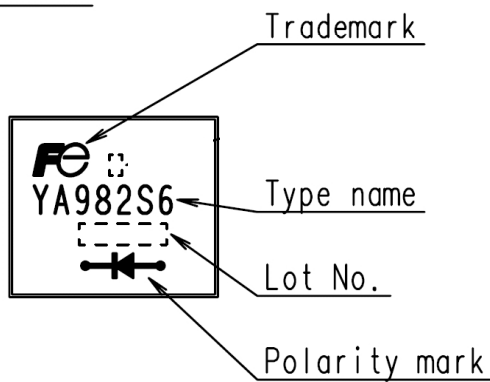
■ Outline Drawings [mm]

OUT VIEW



DIMENSIONS ARE IN MILLIMETERS.

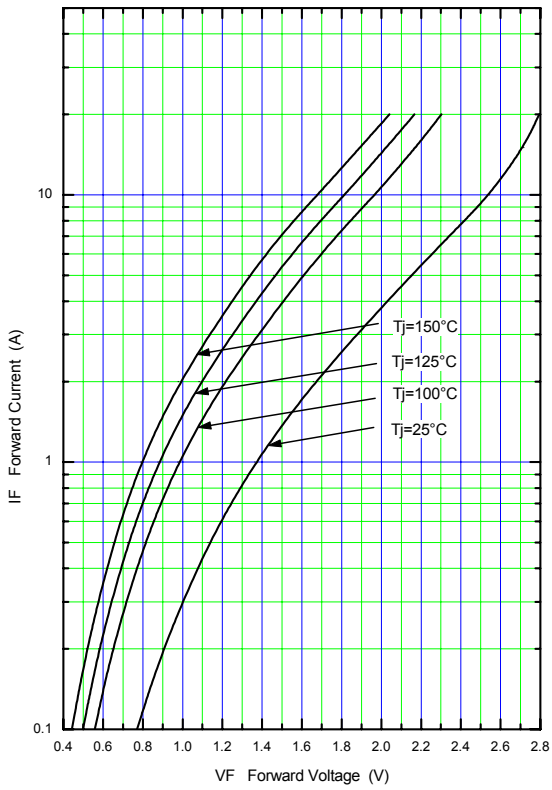
MARKING



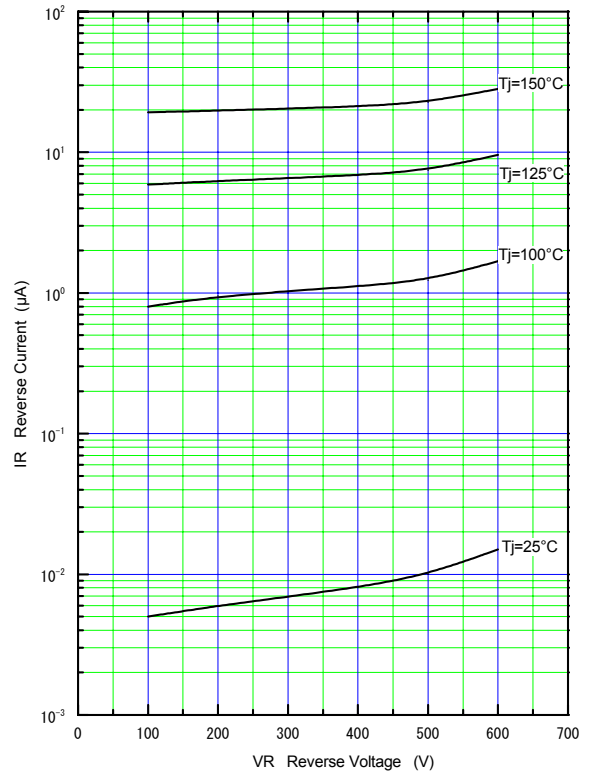
CONNECTION



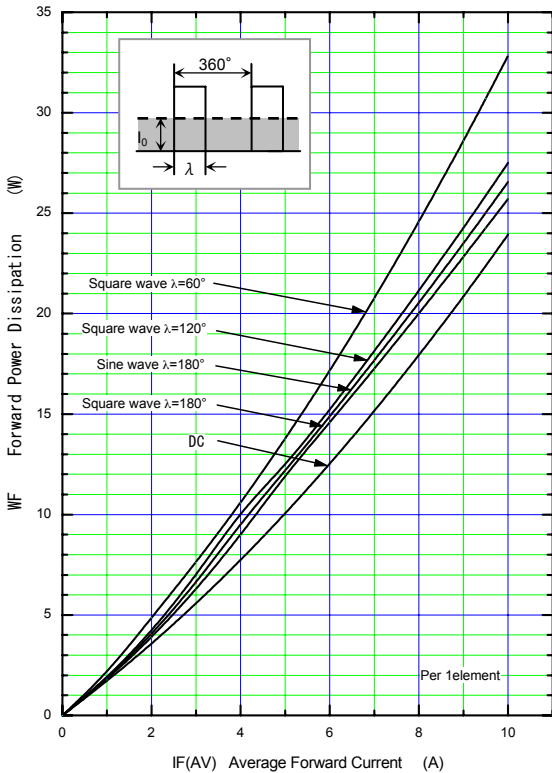
Forward Characteristic (typ.)



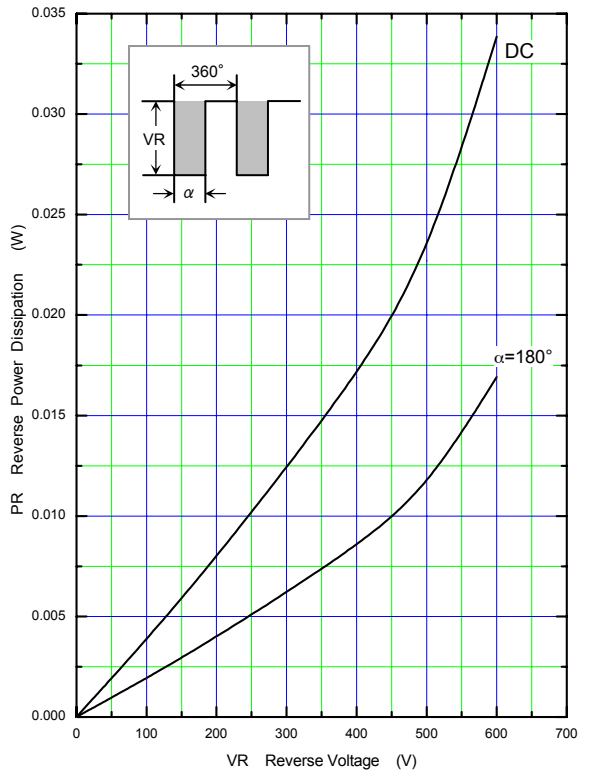
Reverse Characteristic (typ.)

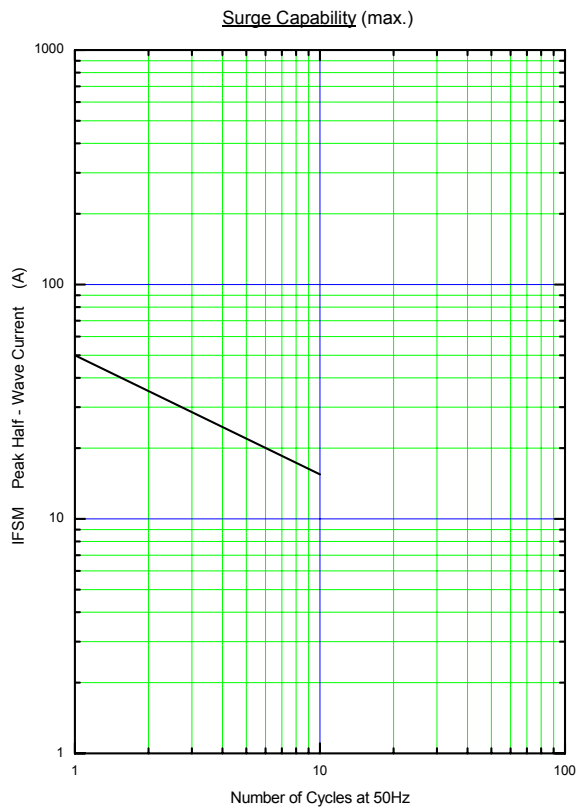
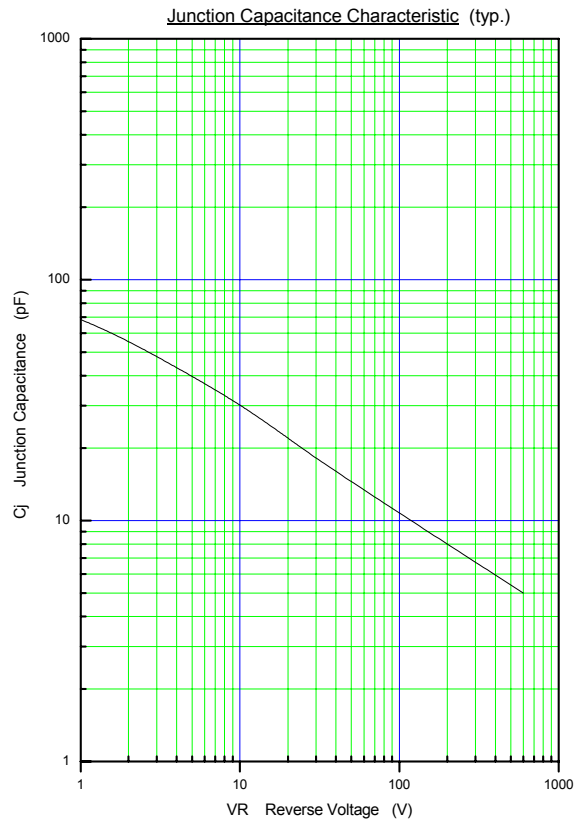
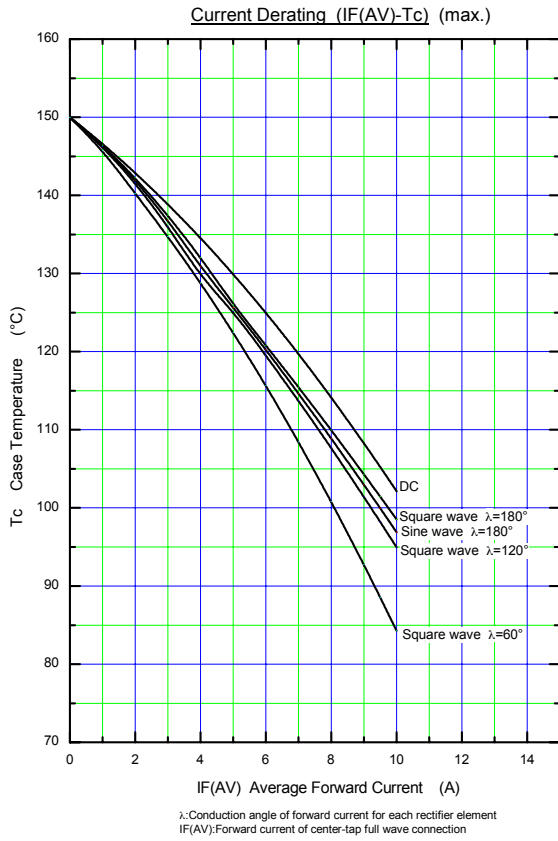


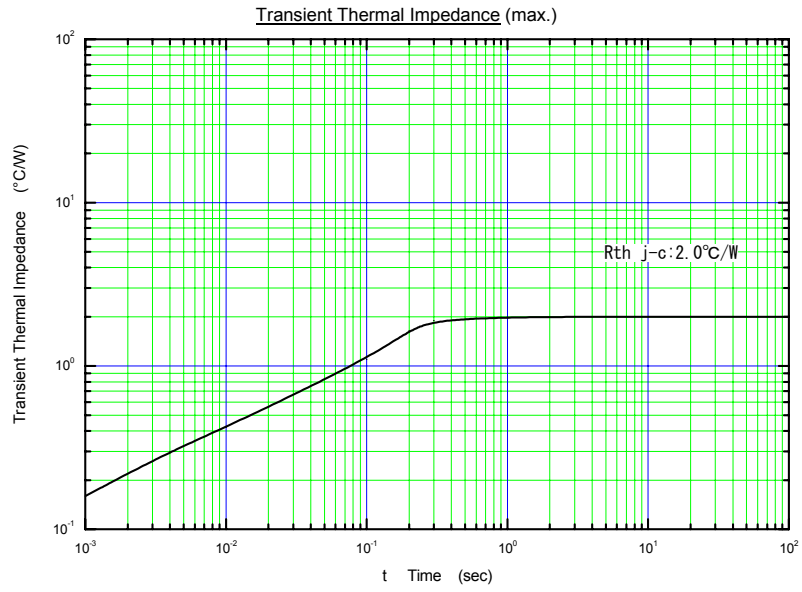
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)







WARNING

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 - Machine tools
 - Audiovisual equipment
 - Electrical home appliances
 - Personal equipment
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 - Safety devices
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