

YG981S6R

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
Isolating voltage	V_{iso}	Terminals-to-case, AC. 1min	1500	V
Average forward current	I_{FAV}	50Hz Square wave duty =1/2 Tc = 58°C	8	A
Non-repetitive forward surge current	I_{FSM}	Sine wave, 10ms 1shot	40	A
Operating junction temperature	T_J	-	150	°C
Storage temperature	T_{stg}	-	-40 to +150	°C

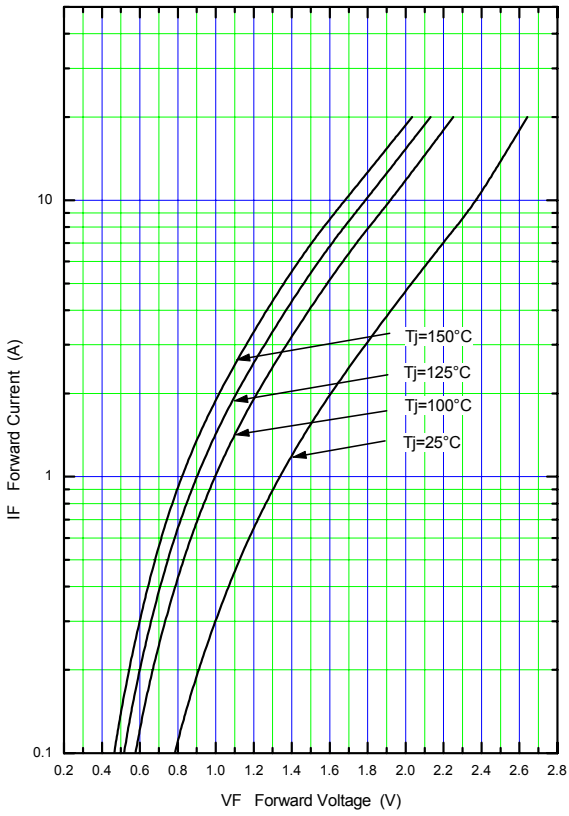
● Electrical characteristics (at Ta=25°C unless otherwise specified.)

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	t_{rr}	$I_F = 0.1\text{ A}$, $I_R = 0.2\text{ A}$, $I_{rec} = 0.05\text{ A}$	0.026	μS
Thermal resistance	$R_{th(j-c)}$	Junction to case	4.5	°C/W

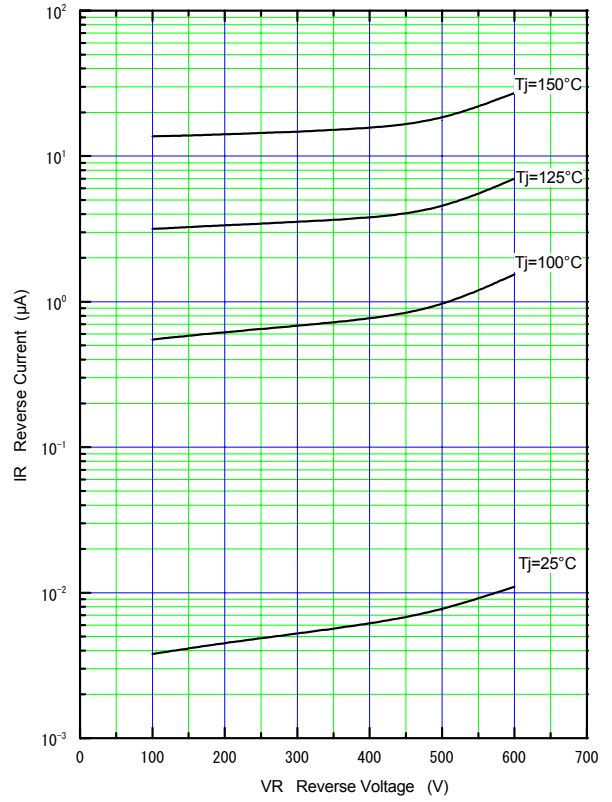
● Mechanical characteristics

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

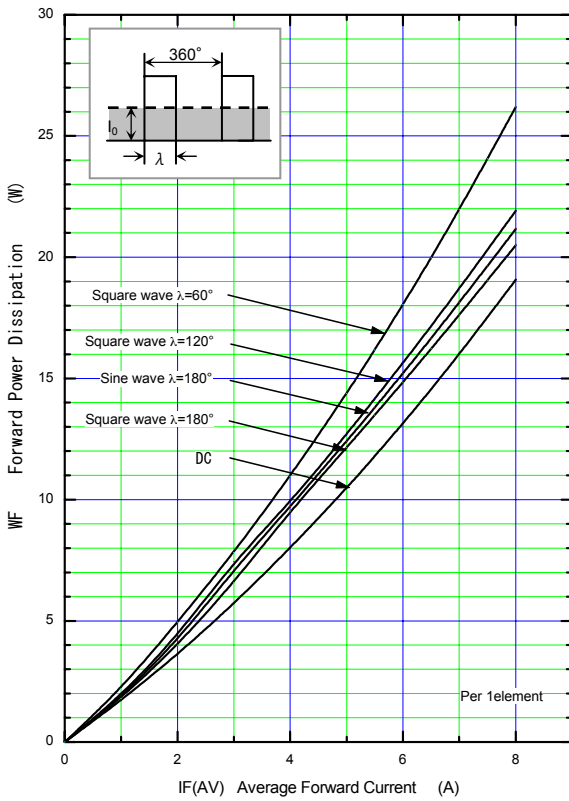
Forward Characteristic (typ.)



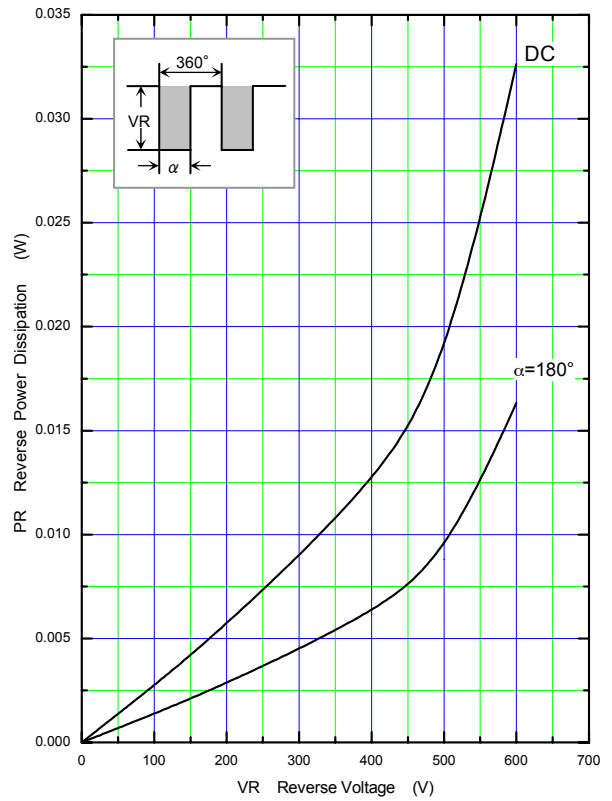
Reverse Characteristic (typ.)

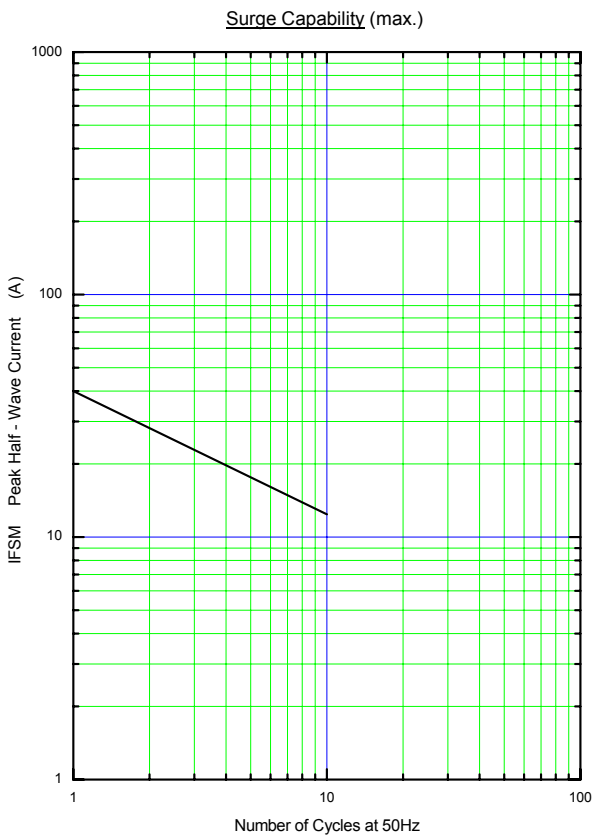
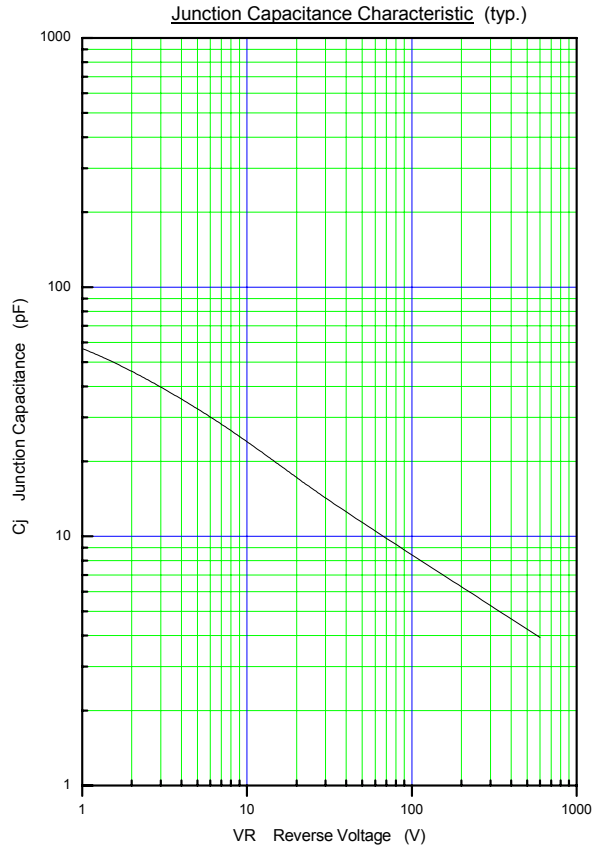
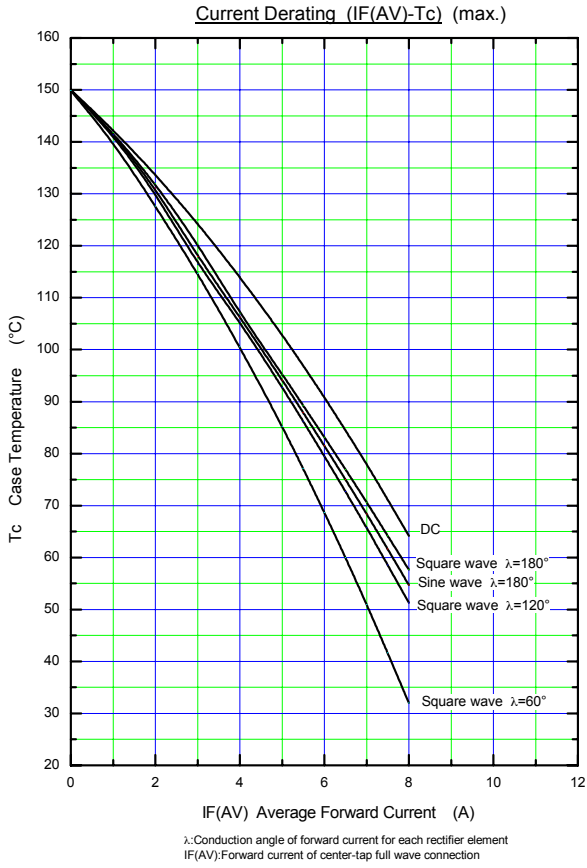


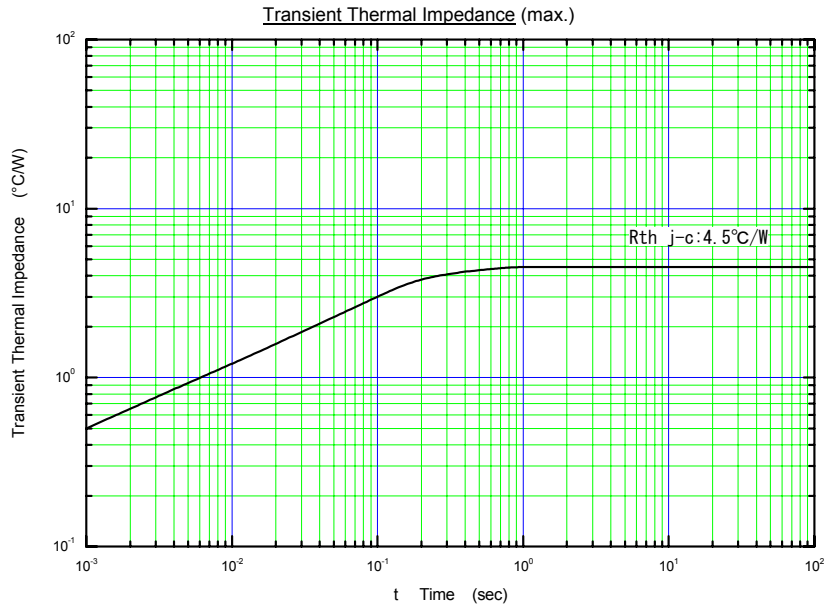
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)







WARNING

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 - Machine tools
 - Audiovisual equipment
 - Electrical home appliances
 - Personal equipment
 - Industrial robots etc.
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 - Emergency equipment for responding to disasters and anti-burglary devices
 - Safety devices
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