

YG981S6R

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	-	600	V
Isolating voltage	Viso	Terminals-to-case, AC.1min	1500	V
Average forward current	IFAV	50Hz Square wave duty =1/2 Tc = 58°C	8	A
Non-repetitive forward surge current	Ігѕм	Sine wave, 10ms 1shot	40	A
Operating junction temperature	Tj	-	150	°C
Storage temperature	Tstg	-	-40 to +150	°C

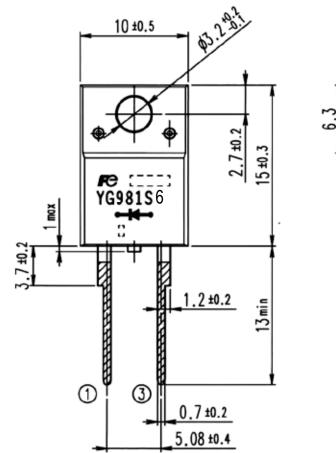
• Electrical characteristics (at Ta=25°C unless otherwise specified.)

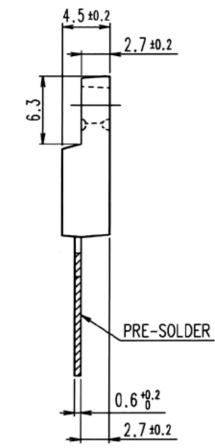
Item	Symbols	Conditions	Maximum	Units
Forward voltage	VF	I⊧ =8 A	3.0	V
Reverse current	Ir	Vr =Vrrm	25	μA
Reverse recovery time	trr	IF =0.1A, IR =0.2A, Irec =0.05A	0.026	μS
Thermal resistance	Rth(j-c)	Junction to case	4.5	°C/W

Mechanical characteristics

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

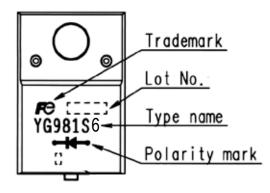
OUT VIEW



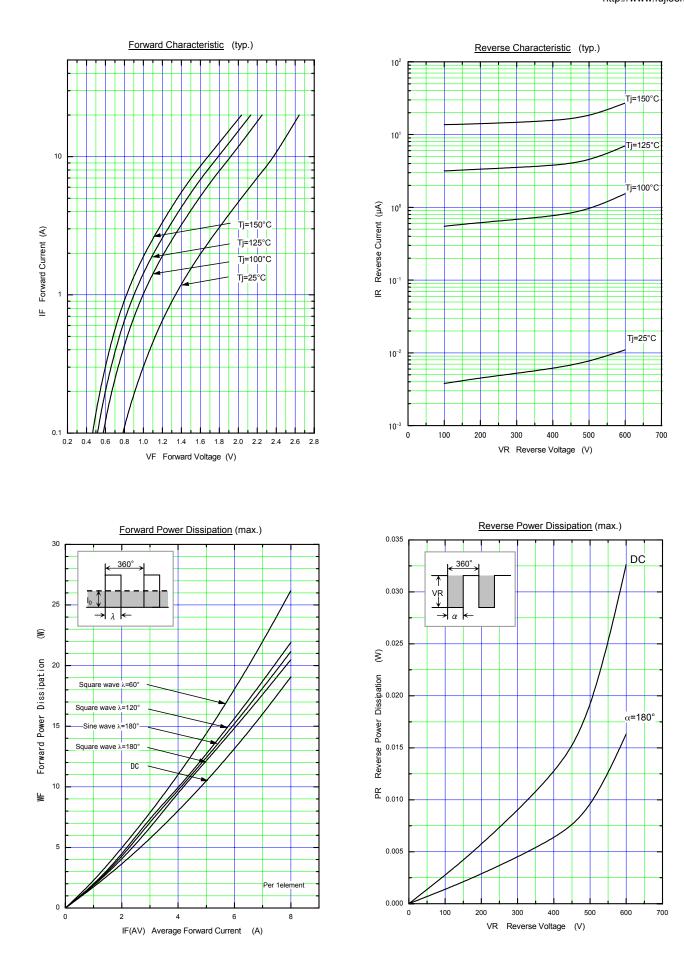


DIMENSIONS ARE IN MILLIMETERS.

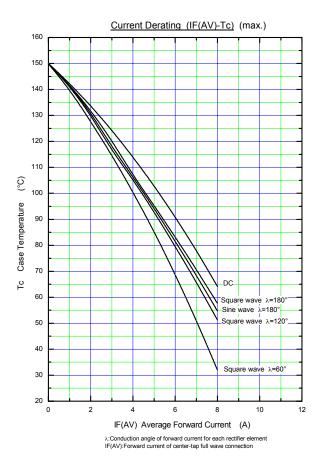
MARKING

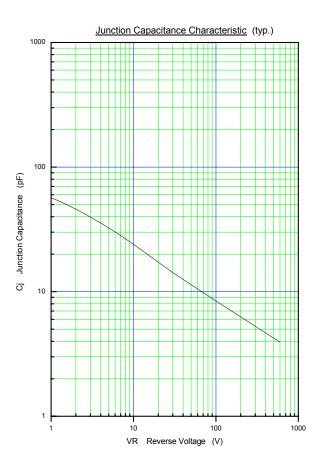


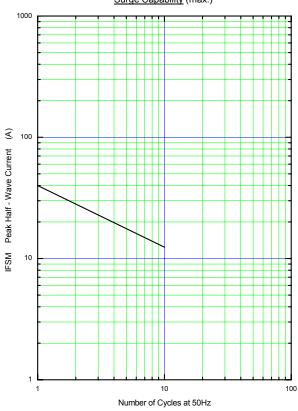
CONNECTION



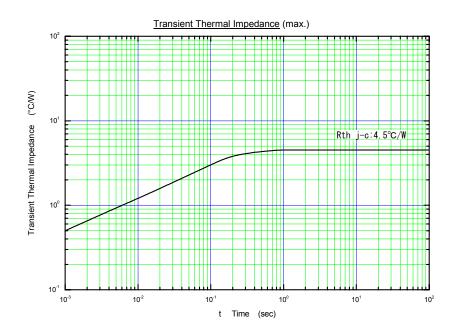
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Surge Capability (max.)



WARNING

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