

KS986S4

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}	-	400	V
Average forward current	I _{FAV}	50Hz Square wave duty =1/2 Tc = 125°C	5	A
Non-repetitive surge current	I _{FSM}	Sine wave, 10ms 1shot	80	A
Operating junction temperature	T _j	-	-40 to +150	°C
Storage temperature	T _{stg}	-	-40 to +150	°C

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

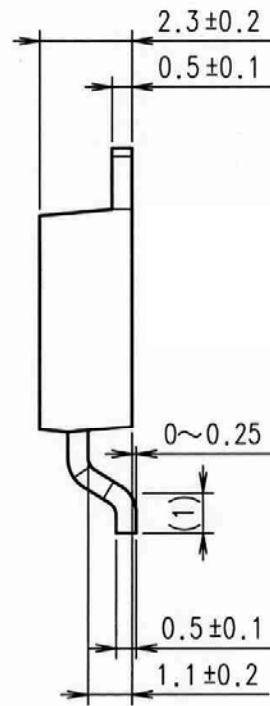
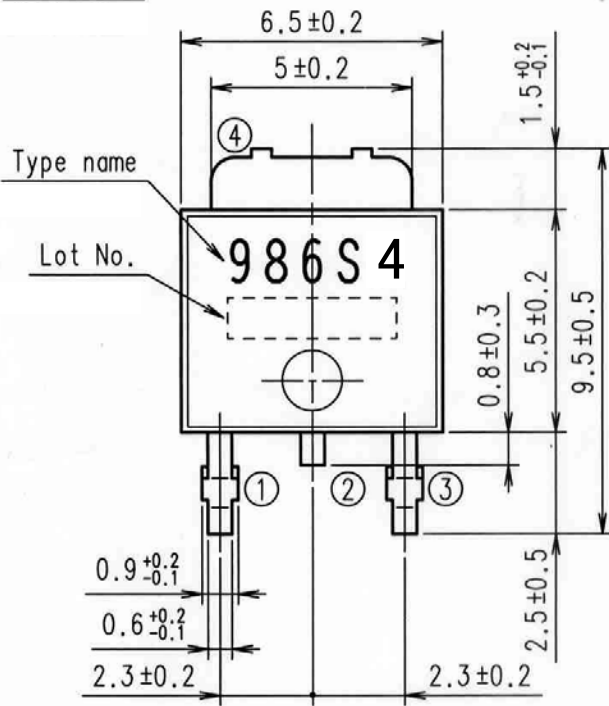
Item	Symbols	Conditions	Maximum	Units
Forward voltage	V _F	I _F = 5 A	1.45	V
Reverse current	I _R	V _R =V _{RRM}	20	μA
Reverse recovery time	t _{rr}	I _F = 0.1A, I _R = 0.2A, I _{rec} = 0.05A	50	μs
Thermal resistance	R _{th(j-c)}	Junction to case	3.5	°C/W

● Mechanical characteristics

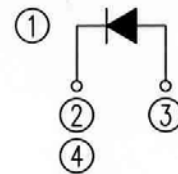
Item	Conditions	Maximum	Units
Approximate mass	-	0.6	g

■ Outline Drawings [mm]

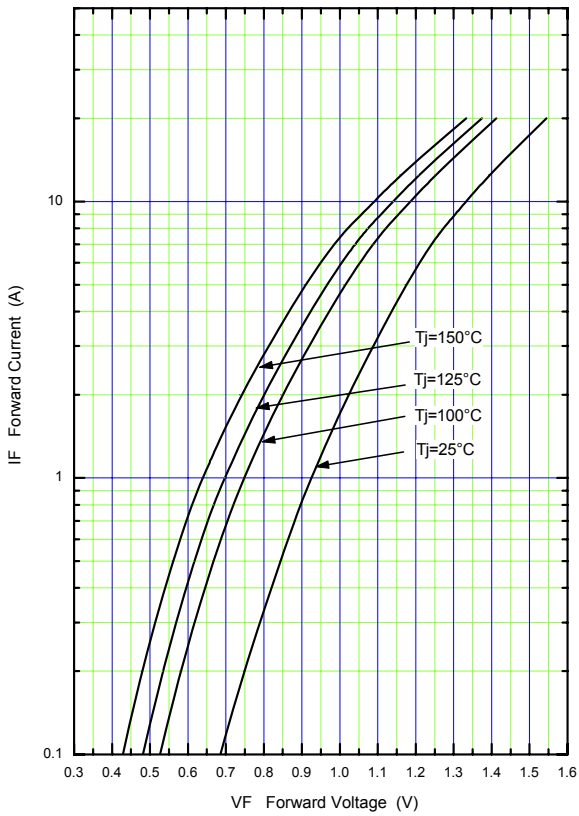
OUT VIEW



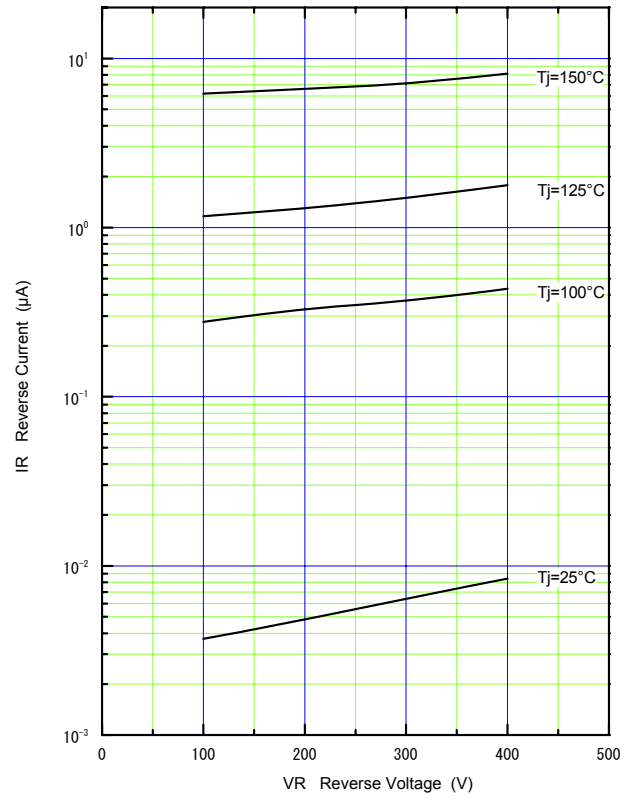
CONNECTION



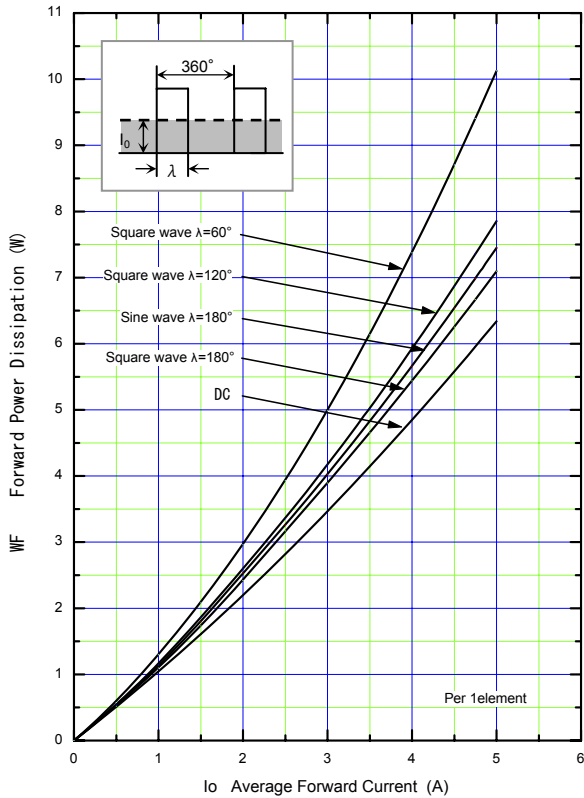
Forward Characteristic (typ.)



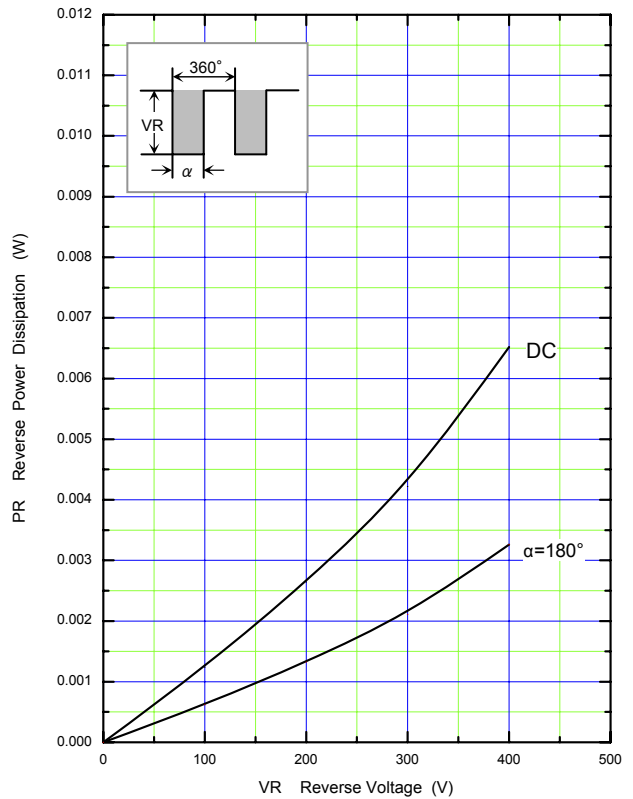
Reverse Characteristic (typ.)

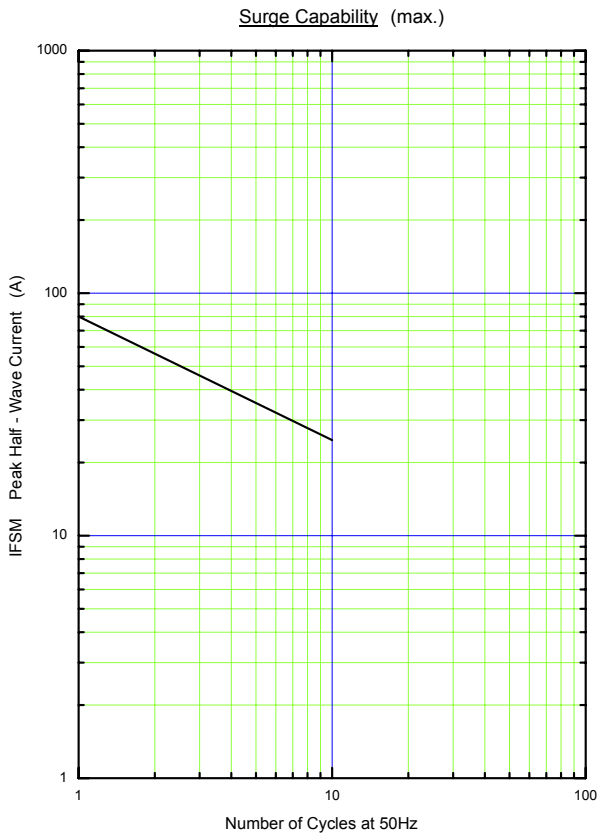
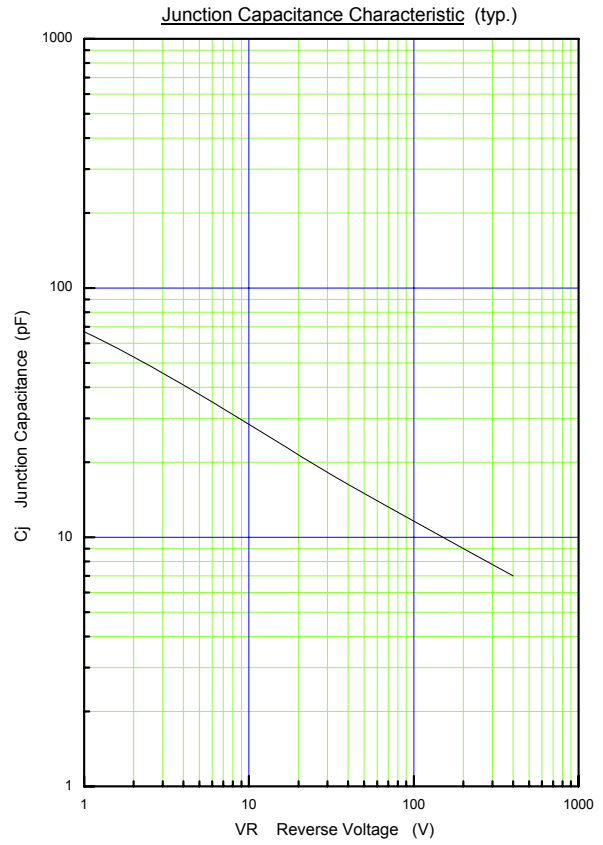
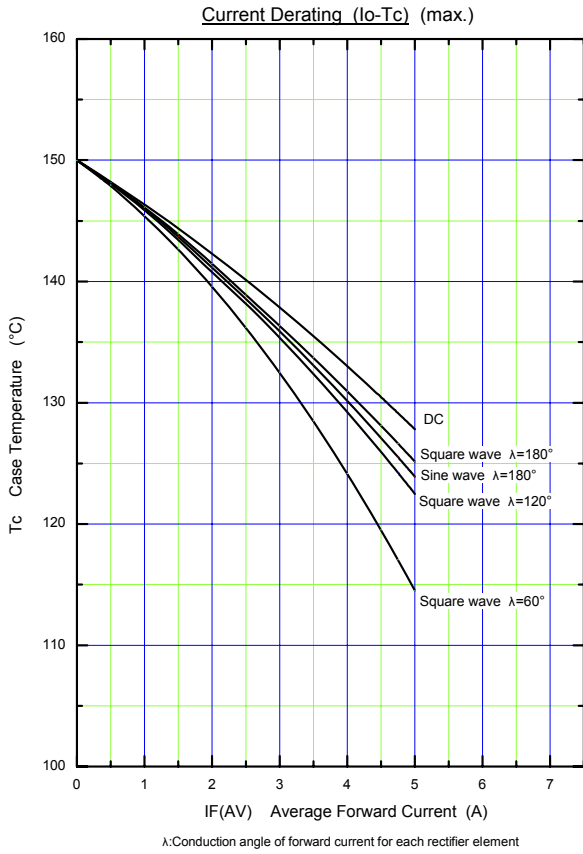


Forward Power Dissipation (max.)

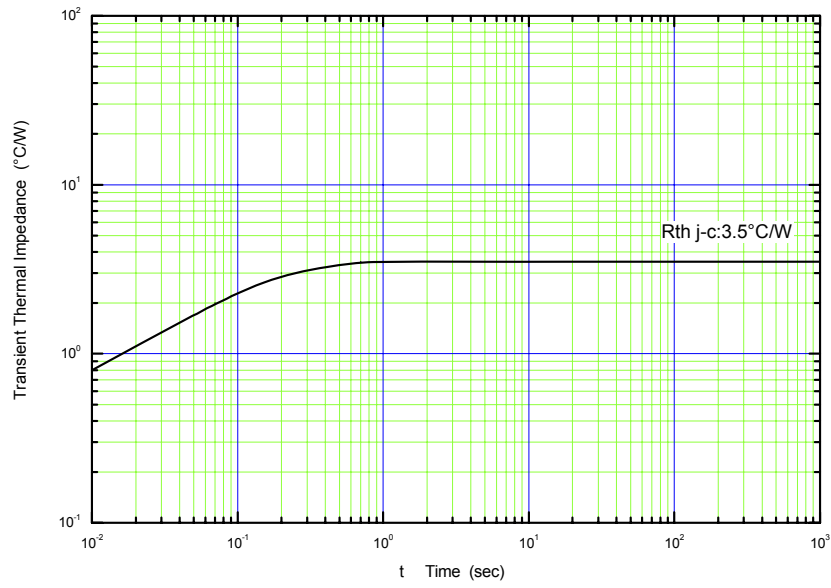


Reverse Power Dissipation (max.)





Transient Thermal Impedance (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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