

# 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	Tj	-	-40 to +150	°C
Storage temperature	Tstg	-	-40 to +150	°C

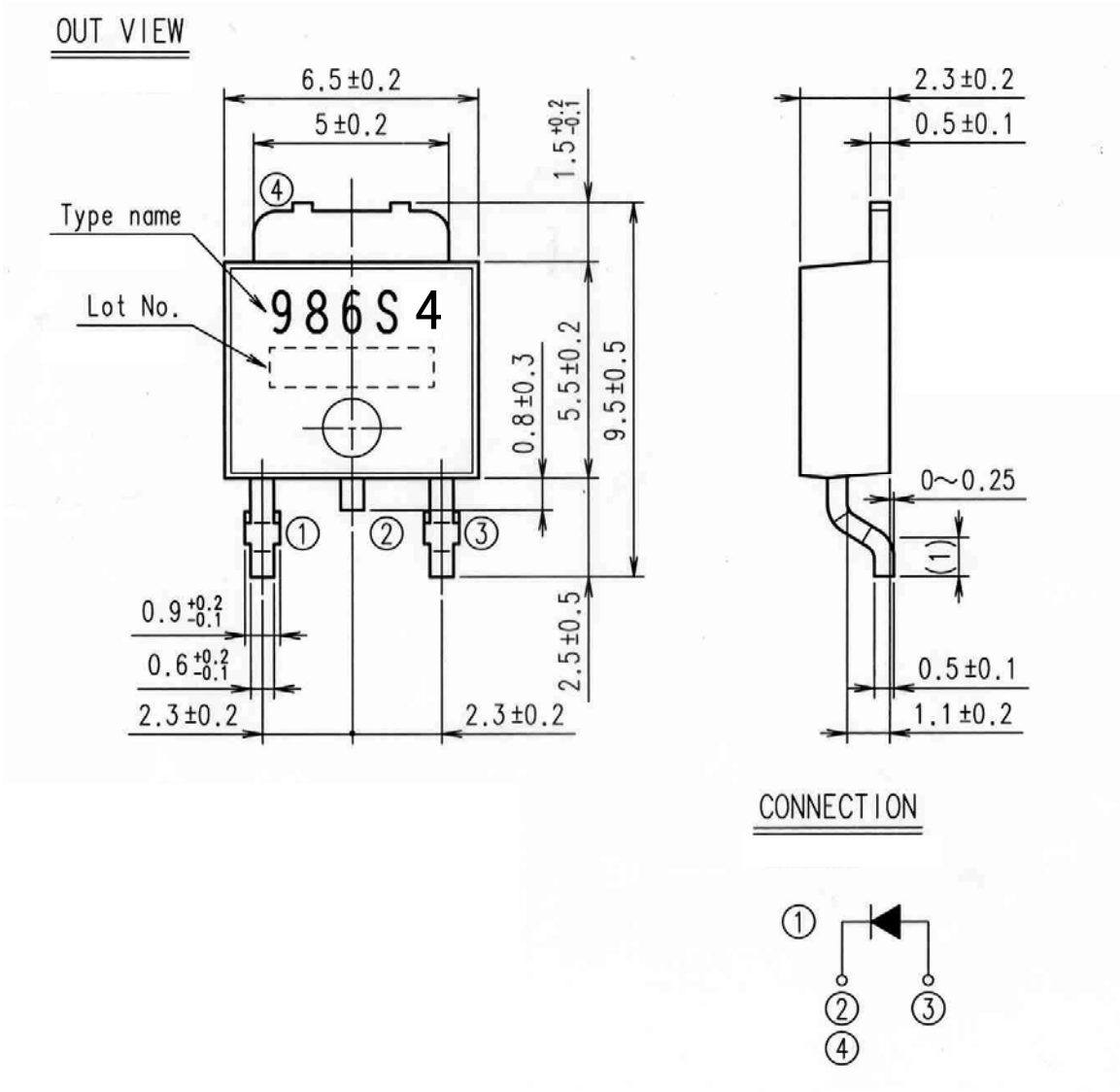
#### ● Electrical characteristics (at Ta=25°C unless otherwise specified.)

Item	Symbols	Conditions	Maximum	Units
Forward voltage	$V_F$	$I_F = 5\text{ A}$	1.45	V
Reverse current	$I_R$	$V_R = V_{RRM}$	20	μA
Reverse recovery time	trr	$I_F = 0.1\text{ A}$ , $I_R = 0.2\text{ A}$ , $I_{rec} = 0.05\text{ A}$	50	μs
Thermal resistance	Rth(j-c)	Junction to case	3.5	°C/W

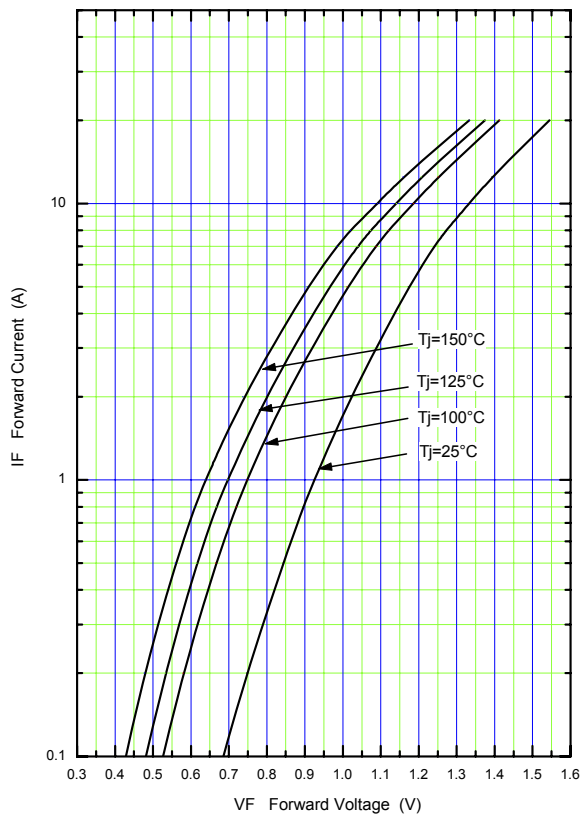
#### ● Mechanical characteristics

Item	Conditions	Maximum	Units
Approximate mass	-	0.6	g

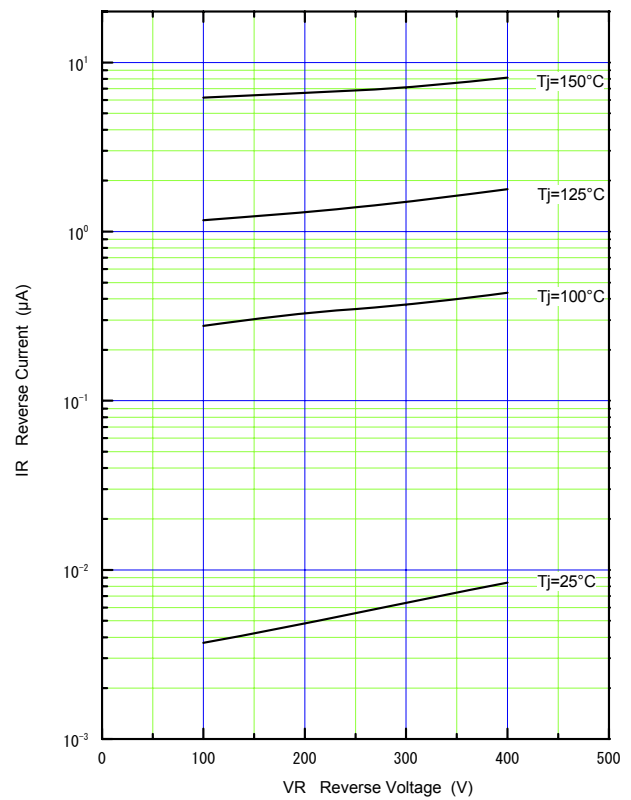
Outline Drawings [mm]



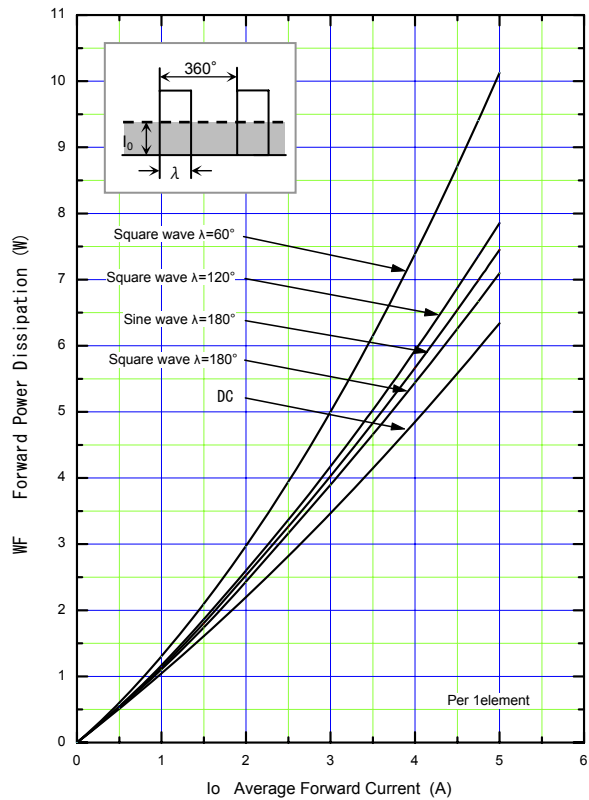
Forward Characteristic (typ.)



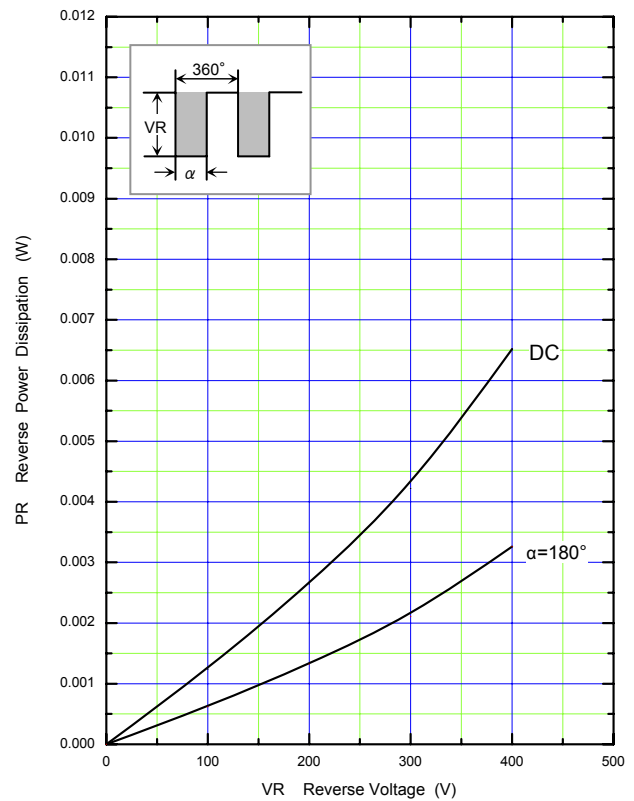
Reverse Characteristic (typ.)

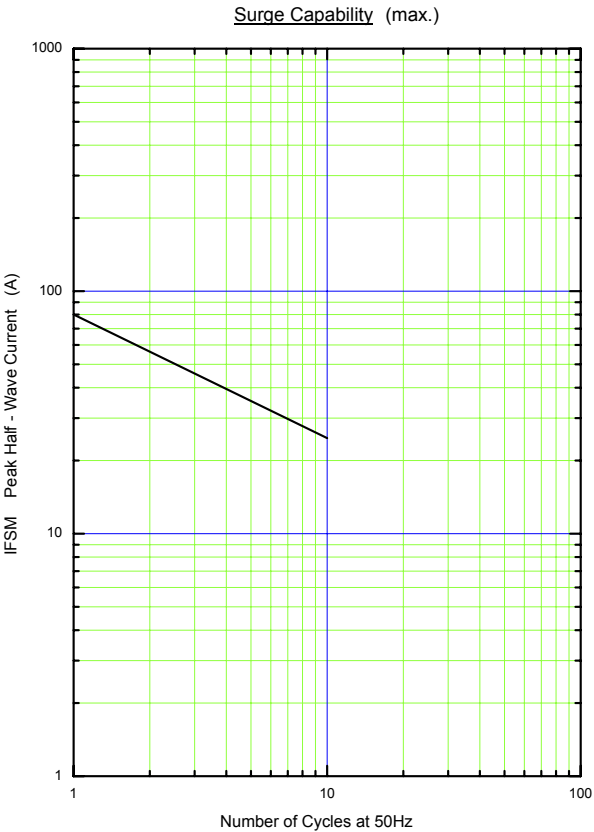
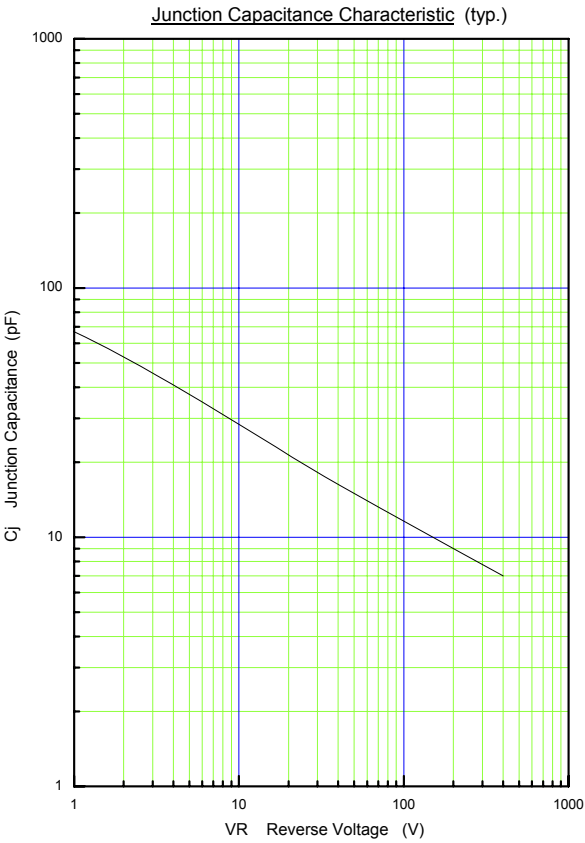
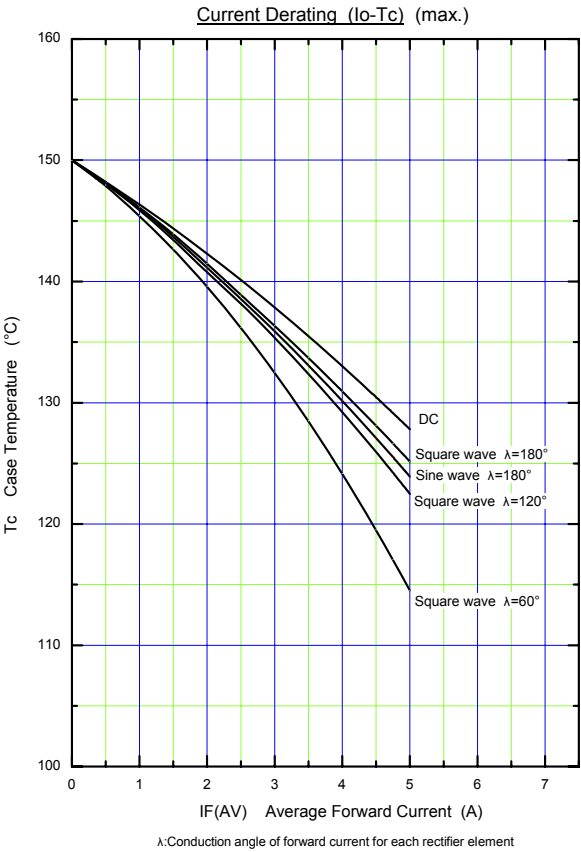


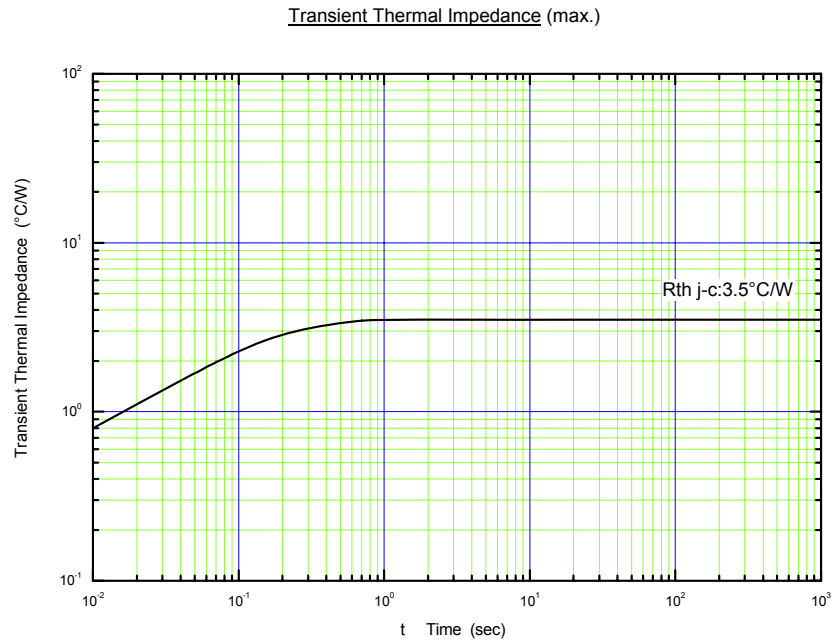
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)







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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
  - Medical equipment
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