

# KS986S3

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	$V_{RRM}$	-	300	V
Average forward current	$I_{FAV}$	50Hz Square wave duty =1/2 Tc = 128°C	5	A
Non-repetitive surge current	$I_{FSM}$	Sine wave, 10ms 1shot	90	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.)

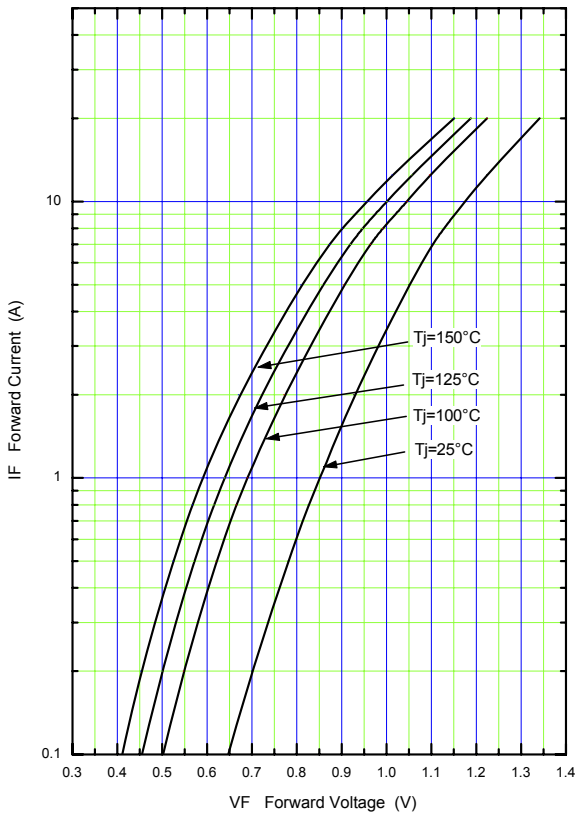
Item	Symbols	Conditions	Maximum	Units
Forward voltage	$V_F$	$I_F = 5 A$	1.3	V
Reverse current	$I_R$	$V_R = V_{RRM}$	20	μA
Reverse recovery time	$t_{rr}$	$I_F = 0.1A, I_R = 0.2A, I_{rec} = 0.05A$	40	μs
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5	°C/W

#### ● Mechanical characteristics

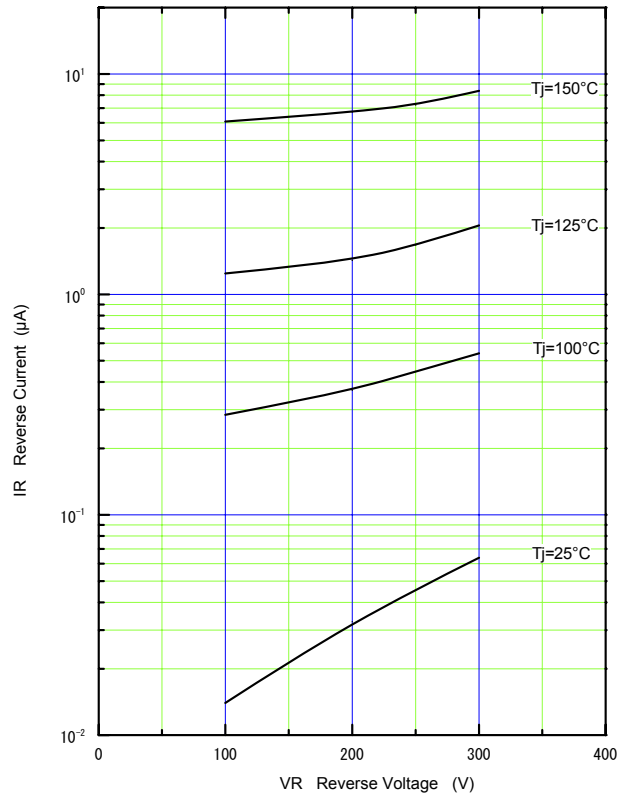
Item	Conditions	Maximum	Units
Approximate mass	-	0.6	g



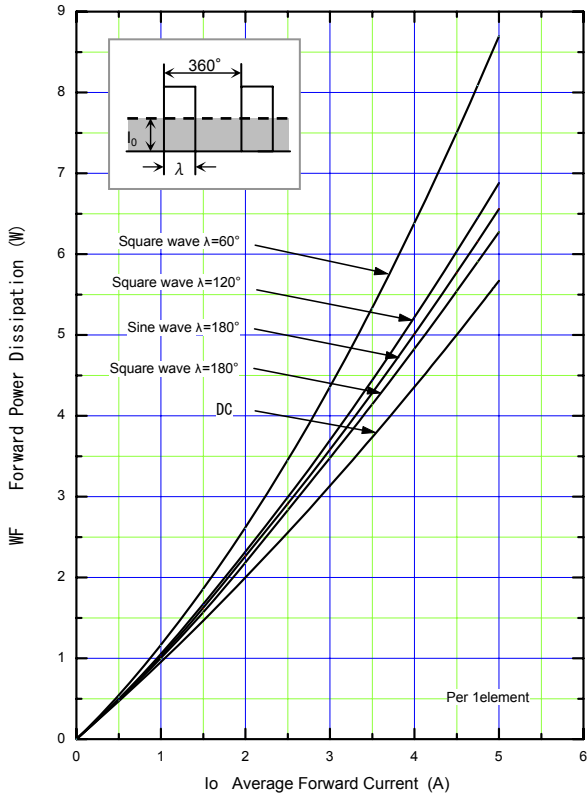
Forward Characteristic (typ.)



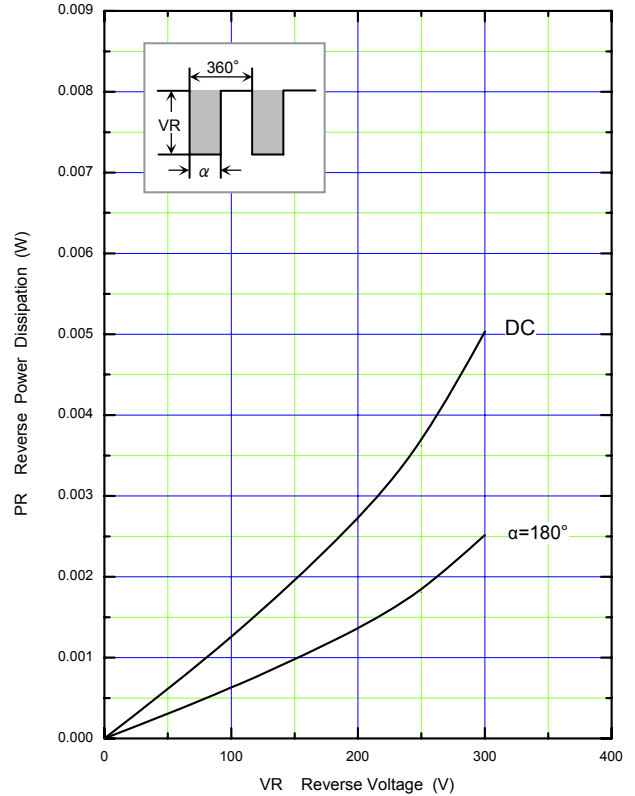
Reverse Characteristic (typ.)

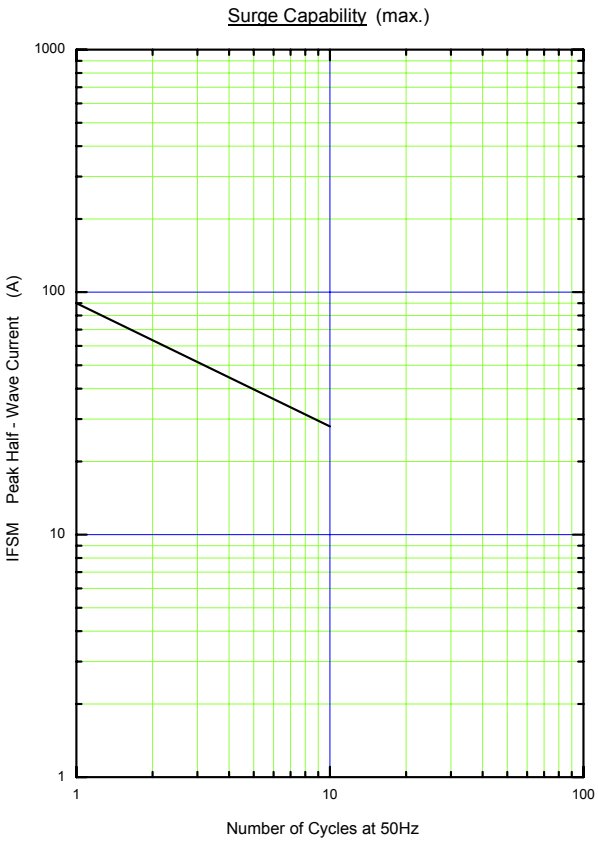
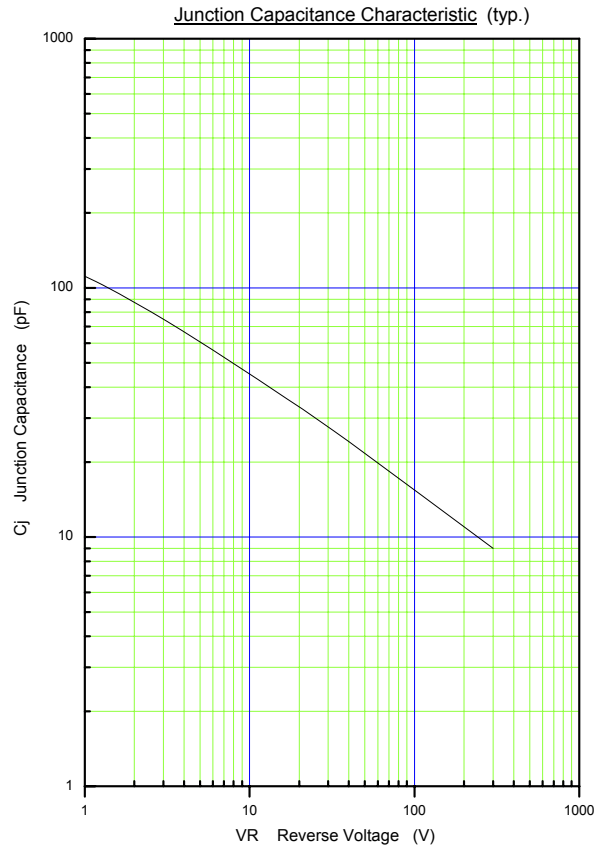
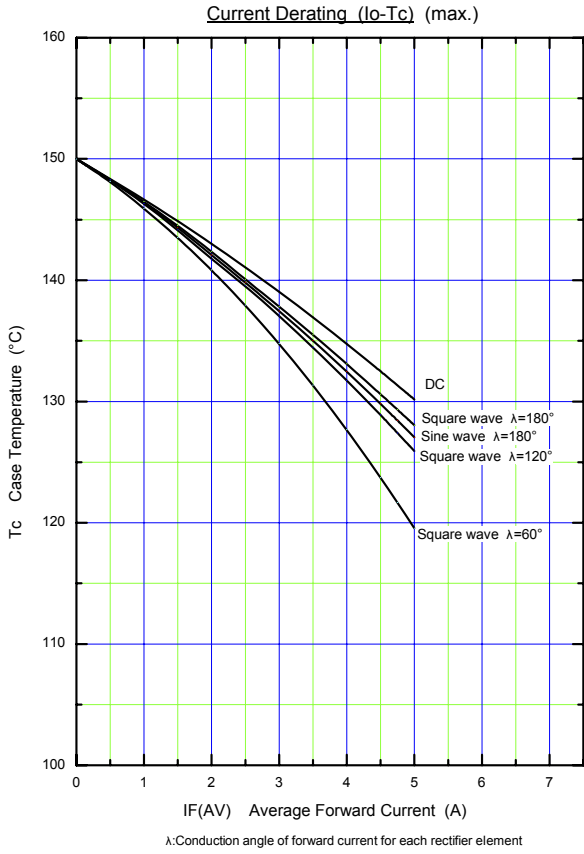


Forward Power Dissipation (max.)

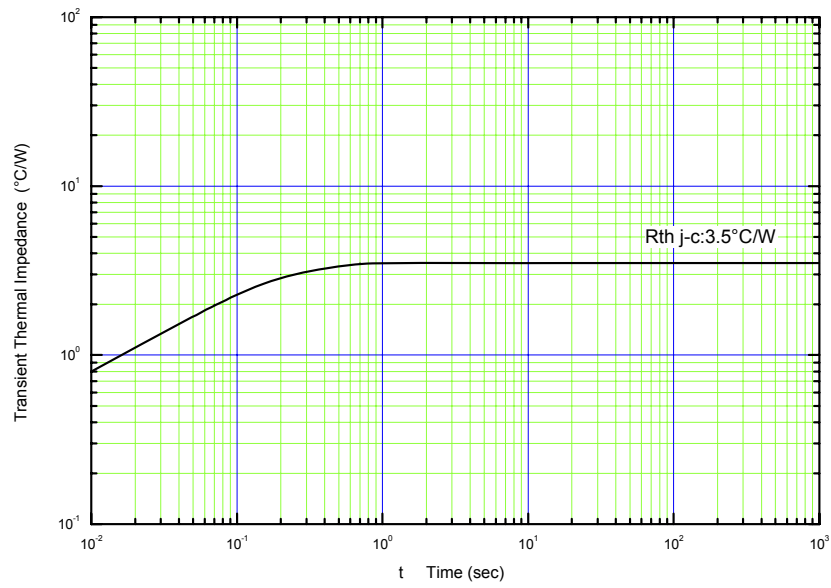


Reverse Power Dissipation (max.)





Transient Thermal Impedance (max.)



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  - Machine tools
  - Audiovisual equipment
  - Electrical home appliances
  - Personal equipment
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  - Gas leakage detectors with an auto-shut-off feature
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  - Safety devices
  - Medical equipment
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