

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

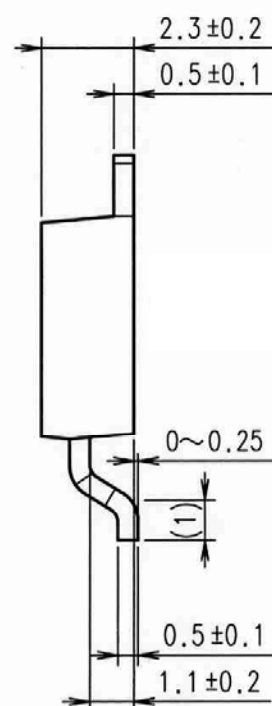
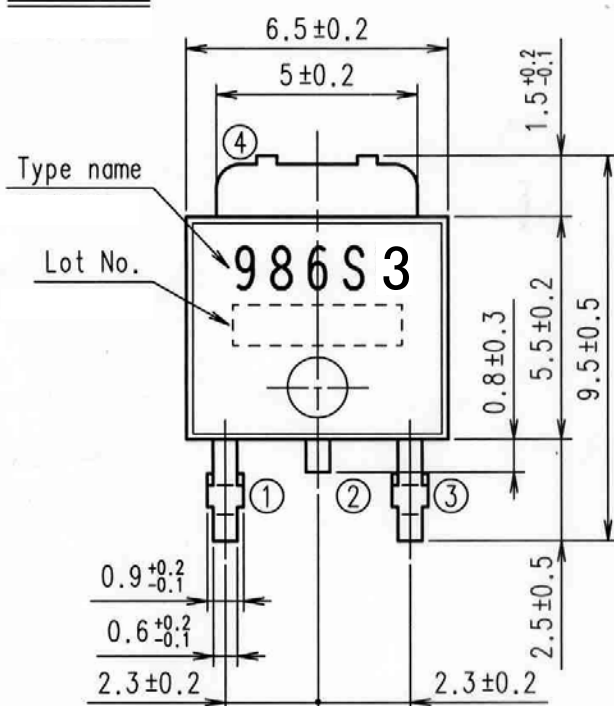
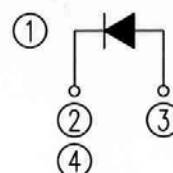
● Electrical characteristics (at Ta=25°C unless otherwise specified.)

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

● Mechanical characteristics

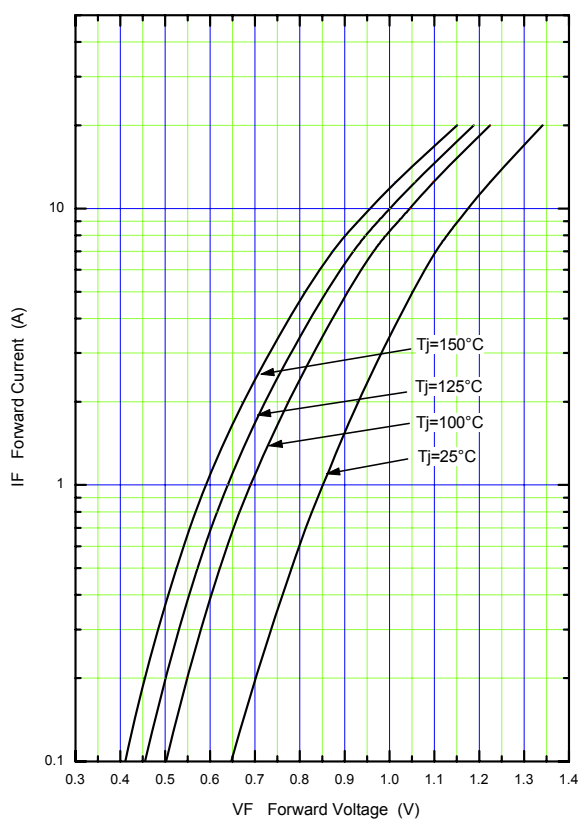
Item	Conditions	Maximum	Units
Approximate mass	-	0.6	g

■ Outline Drawings [mm]

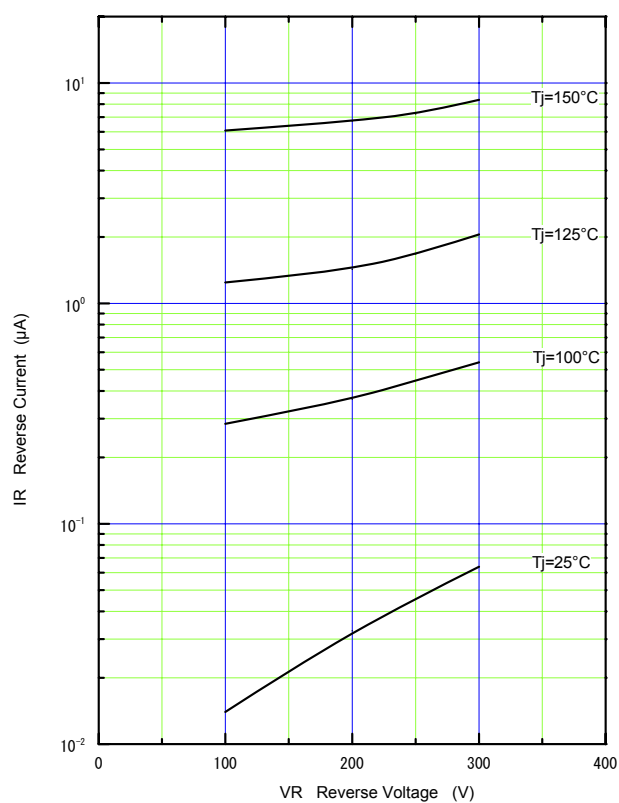
OUT VIEWCONNECTION

UNIT : mm

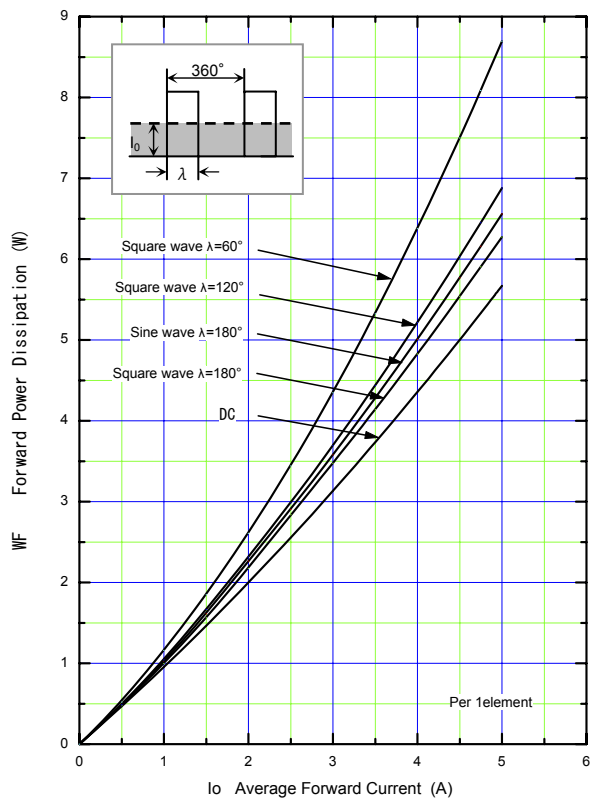
Forward Characteristic (typ.)



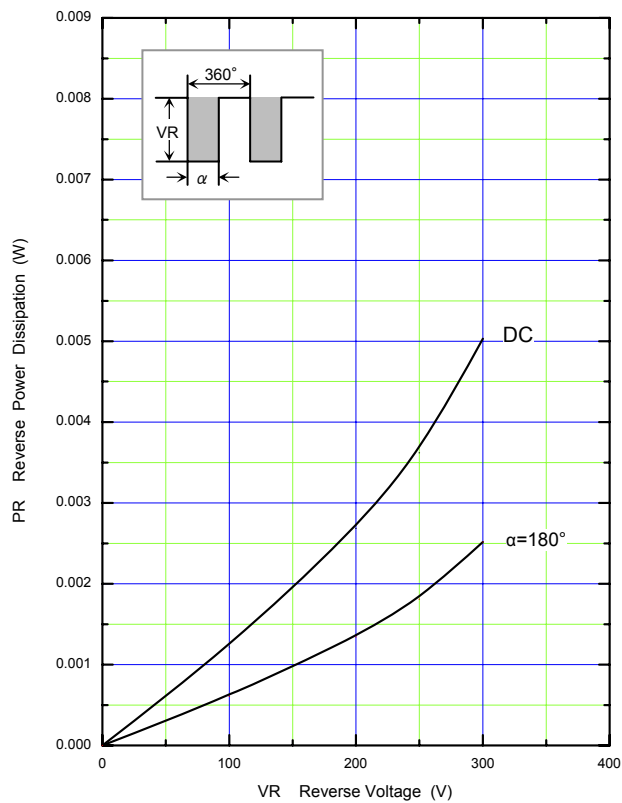
Reverse Characteristic (typ.)

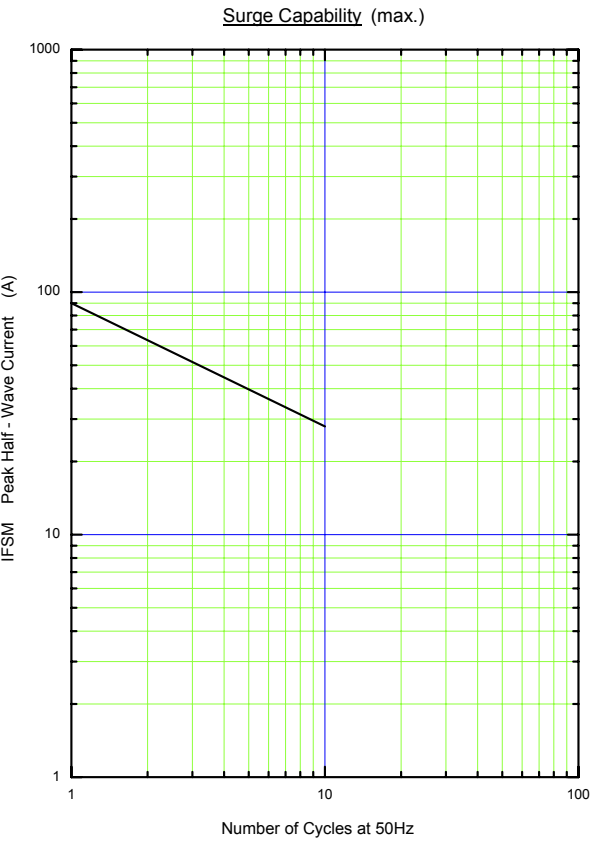
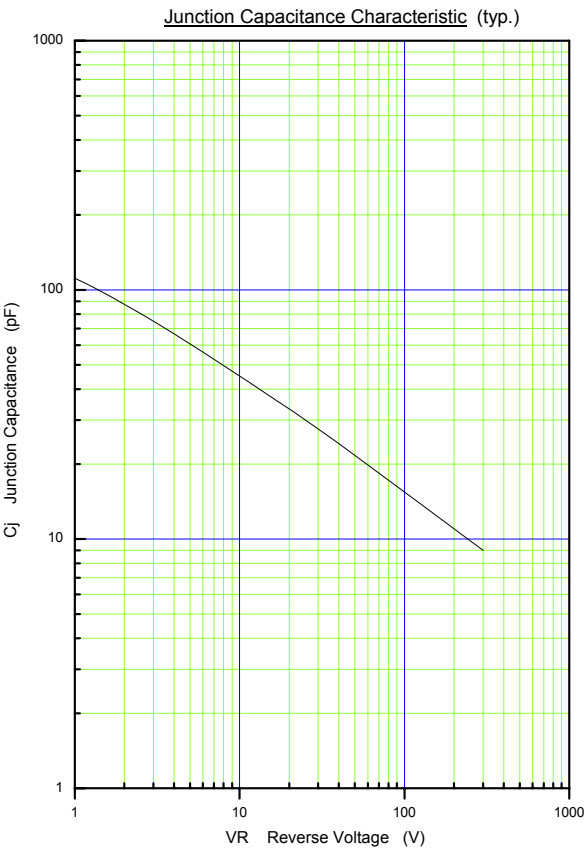
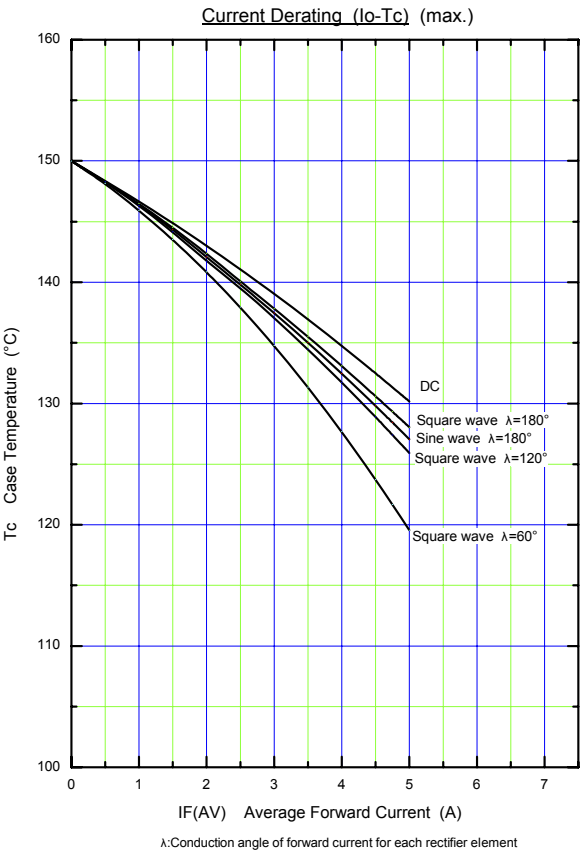


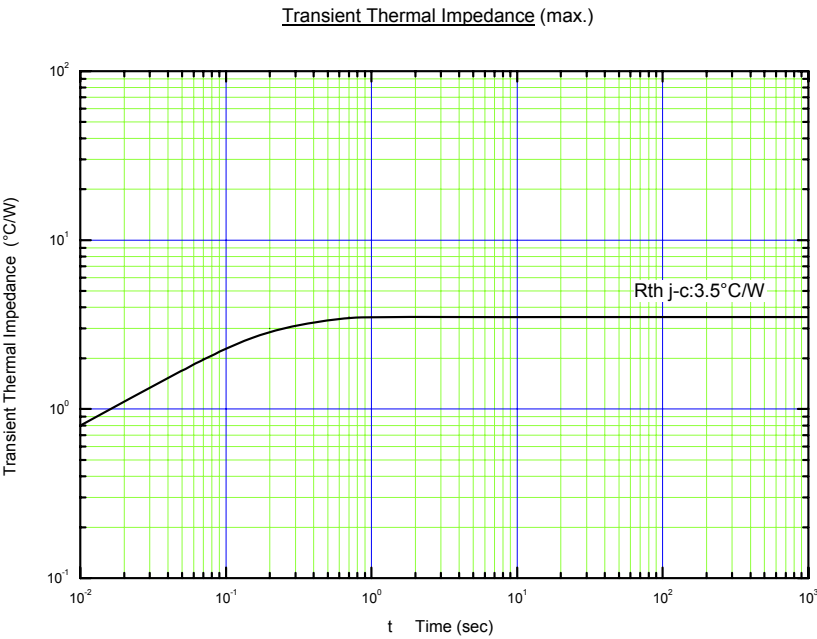
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)







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