

SDS2838F

Switching Diode

Features

• SMD package : SOT-23F

• Low forward voltage : V_F=0.9V(Typ.)

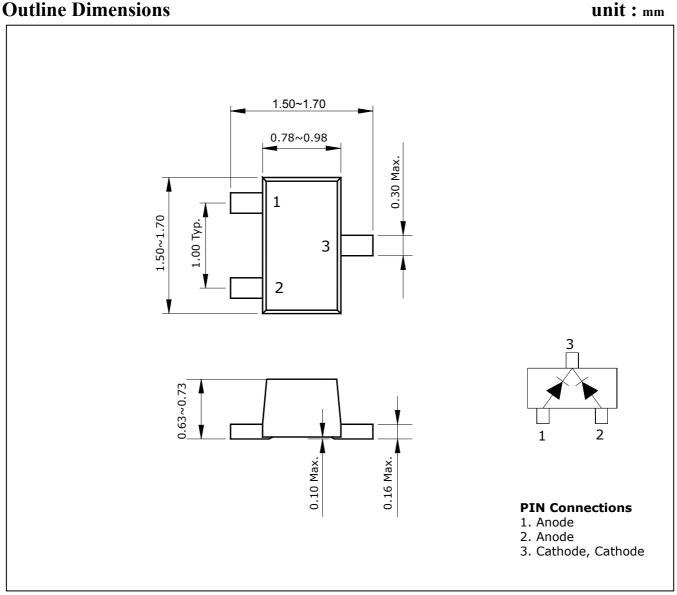
• Fast reverse recovery time : $t_{rr}=1.6 \text{ } \text{ns}(\text{Typ.})$

• Small total capacitance : $C_T=2.2 pF(Typ.)$

Ordering Information

Type No. Marking		Package Code	
SDS2838F	CA6	SOT-23F	

Outline Dimensions



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查询"SDS2838F_1"供应商

Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Rating	Unit
Peak reverse voltage	V_{RM}	85	V
Reverse voltage	V _R	80	V
Peak forward current	${I_{FM}}^*$	300	mA
Average forward current	I _o *	100	mA
Peak forward surge current(10ms)	${ m I_{FSM}}^*$	2	А
Power dissipation	P _D	150	mW
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

^{* :} Unit ratings. Total rating = Unit rating $\times 1.5$

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	$V_{F(1)}$	$I_{\text{F}} = 1 \text{ mA}$	-	0.6	-	
	V _{F(2)}	$I_F = 10 \text{ mA}$	-	0.7	1	V
	V _{F(3)}	$I_F = 100 \text{ mA}$	-	0.9	1.2	
Reverse current	I_{R}	V _R =80V	-	-	0.5	μA
Total capacitance	C_T	$V_R=0$, $f=1$ MHz	-	2.2	4.0	pF
Reverse recovery time	t _{rr}	$I_F=10 \text{ MA}$ (Fig. 5)	-	1.6	4.0	ns

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Electrical Characteristic Curves

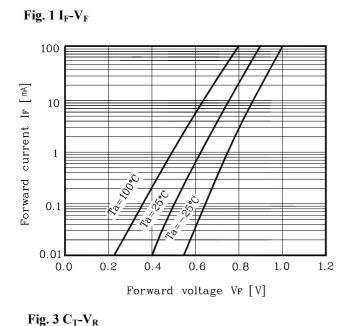


Fig. 2 I_R-V_R

10

Ta=100°C

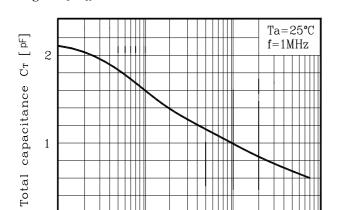
Ta=50°C

Ta=25°C

Ta=25°C

Ta=25°C

Reverse voltage VF [V]



Reverse voltage VR [V]

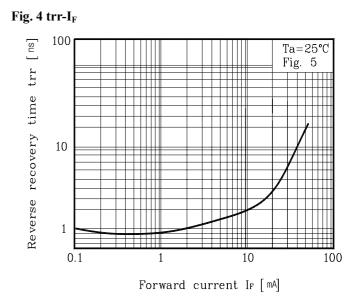
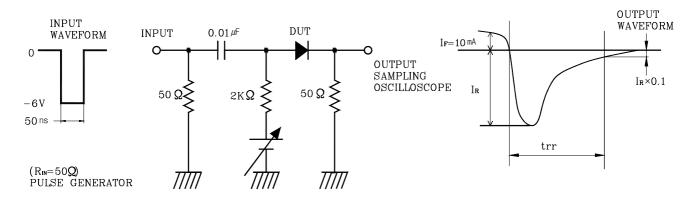


Fig. 5 Reverse recovery time(trr) test circuit

0 0.1



100

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