

SDS2838F

Switching Diode

unit : mm

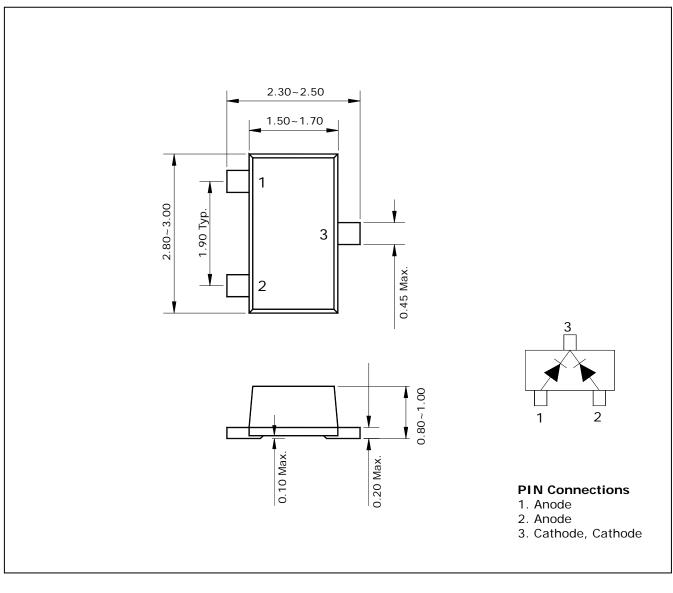
Features

- SMD package : SOT-23F
- Low forward voltage : V_F=0.9V(Typ.)
- Fast reverse recovery time : t_{rr}=1.6 ns(Typ.)
- Small total capacitance : $C_T = 2.2 \text{ pF}(Typ.)$

Ordering Information

Type No.	Marking	Package Code	
SDS2838F	<u>CA6</u> □ ① ②	SOT-23F	
	1 Device Code 2 Year&Week Code		

Outline Dimensions



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Ta=25°C

Absolute maximum ratings

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)	I _{FSM} *	2	А	
Power dissipation	P _D	150	mW	
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	-55 ~ 150	°C	

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

Electrical Characteristics

Electrical Characteristics Ta=					a=25°C	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
	V _{F(1)}	$I_F = 1 \text{ MA}$	-	0.6	-	
Forward voltage	V _{F(2)}	$I_F = 10 \text{ mA}$	-	0.7	-	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	CT	$V_R=0$, 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

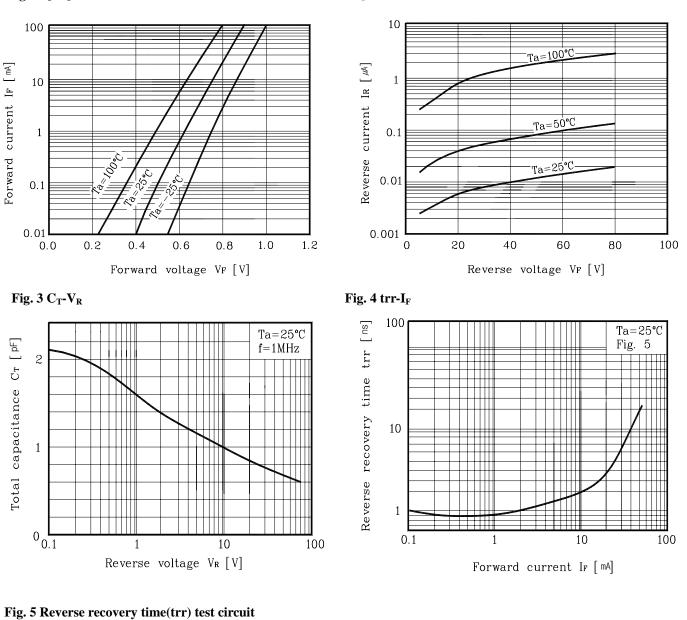
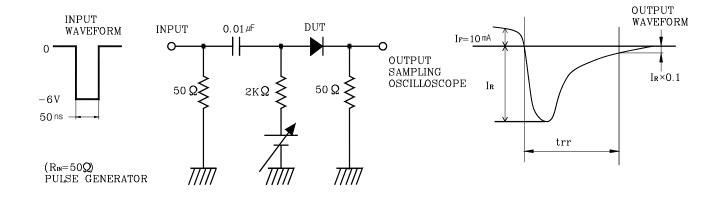


Fig. 1 I_F-V_F

Fig. 2 I_R - V_R



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