

Switching Diode

unit : mm

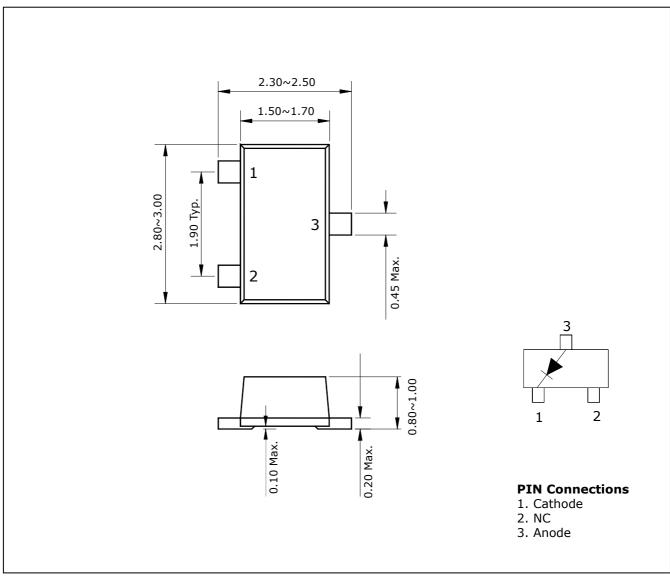
Features

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

Ordering Information

Type No.	Marking	Package Code	
SDS915F	C5E	SOT-23F	

Outline Dimensions



SDS915F

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

Electrical Characteristics

Electrical Characteristics				Ta=25°		
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	V _{F(1)}	$I_F=1$ MA	-	0.6	-	
	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	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

SDS915F

Electrical Characteristic Curves

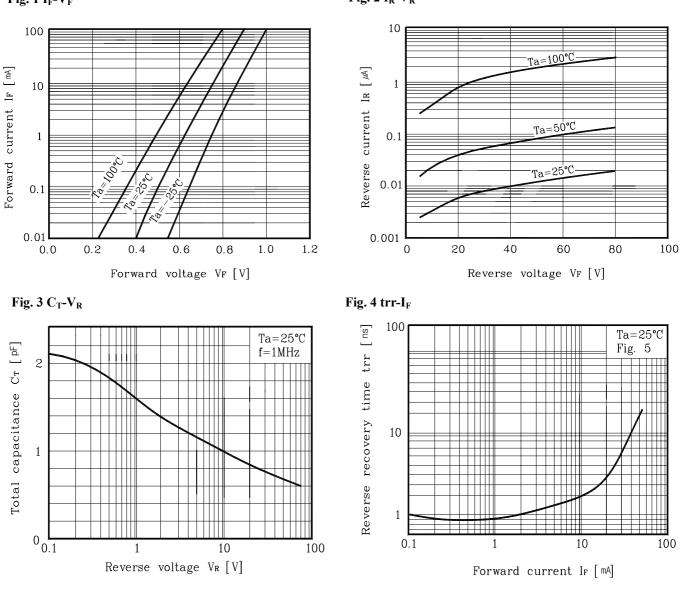
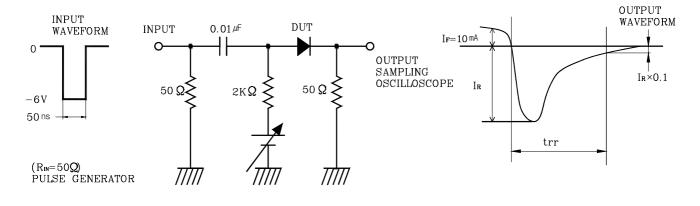


Fig. 1 I_F-V_F

Fig. 2 I_R-V_R

Fig. 5 Reverse recovery time(trr) test circuit



SDS915F

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