

Features

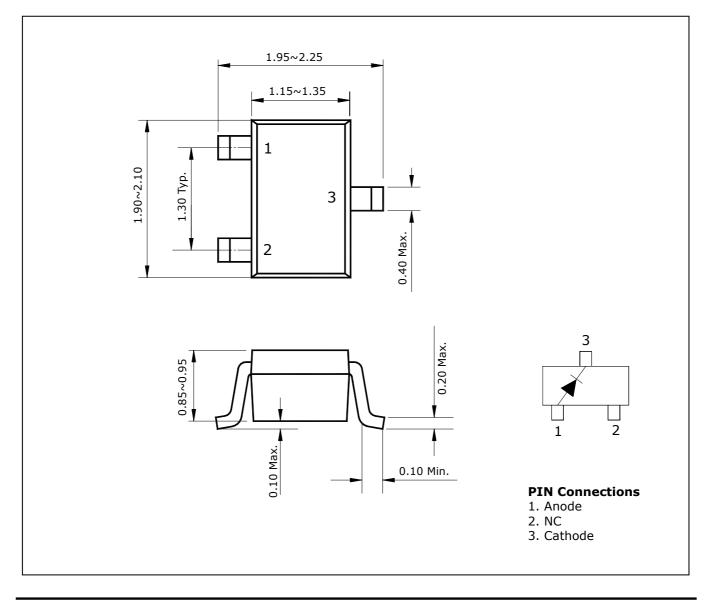
- SMD package : SOT-323
- Low forward voltage : V_F=0.9V(Typ.)
- Fast reverse recovery time : t_{rr} =1.6 ns(Typ.)
- Small total capacitance : $C_T = 2.2 \text{ pF}(Typ.)$

Ordering Information

Type No. Marking		Package Code	
SDS152K	5D	SOT-323	

Outline Dimensions

unit : mm



SDS152K

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					Т	Ta=25°C	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit	
Forward voltage	V _{F(1)}	$I_F = 1 \text{ MA}$	-	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	рF	
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. 5 Reverse recovery time(trr) test circuit

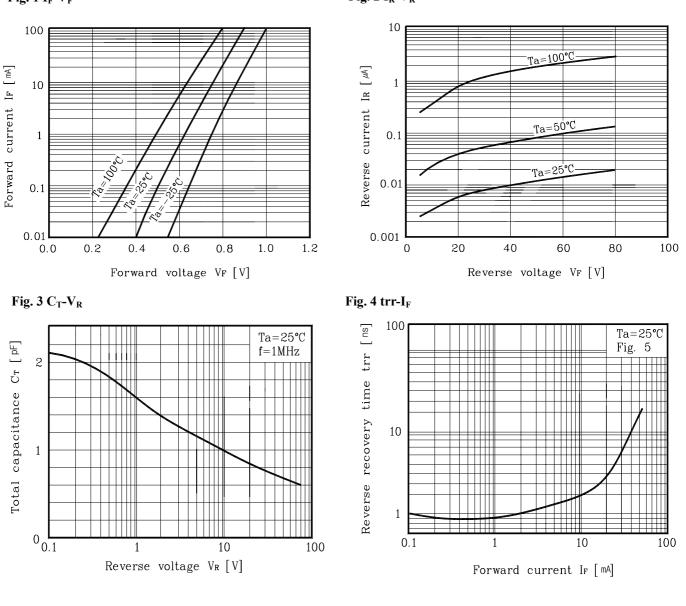
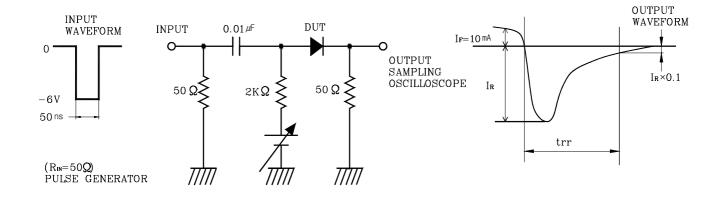


Fig. 1 I_F-V_F

Fig. 2 I_R-V_R



SDS152K

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