



Features

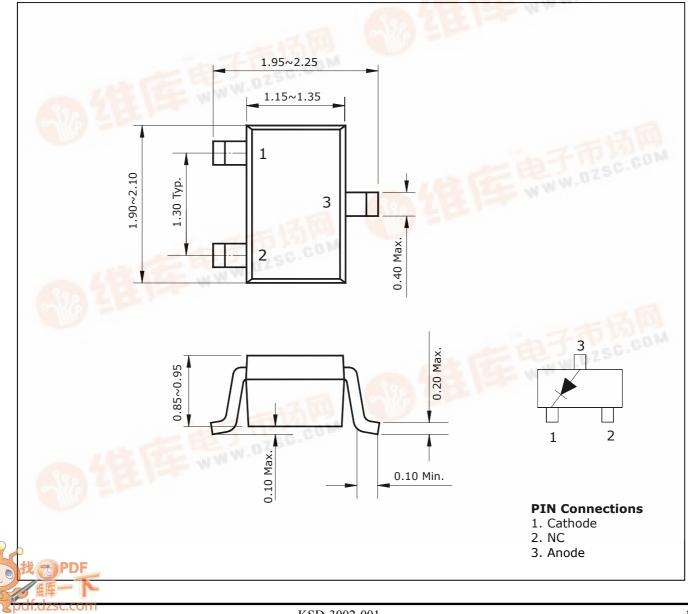
- SMD package : SOT-323
- Low forward voltage : V_F=0.9V(Typ.)
- Fast reverse recovery time : $t_{rr}=1.6$ ns(Typ.)
- Small total capacitance : $C_T = 2.2 \text{ pF}(Typ.)$

Ordering Information

Type No.	Marking	Package Code
SDS152A	5E	SOT-323

Outline Dimensions

unit : mm



SDS152A

Absolute maximum ratings

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	Io	100	mA		
Peak forward surge current(10ms)	I_{FSM}	2	А		
Power dissipation	P _D	150	mW		
Junction temperature	T _j	150	°C		
Storage temperature range	T _{stg}	-55 ~ 150	°C		

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
	V _{F(1)}	$I_{\text{F}} = 1 \text{ MA}$	-	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	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

Ta=25°C

SDS152A

Electrical Characteristic Curves

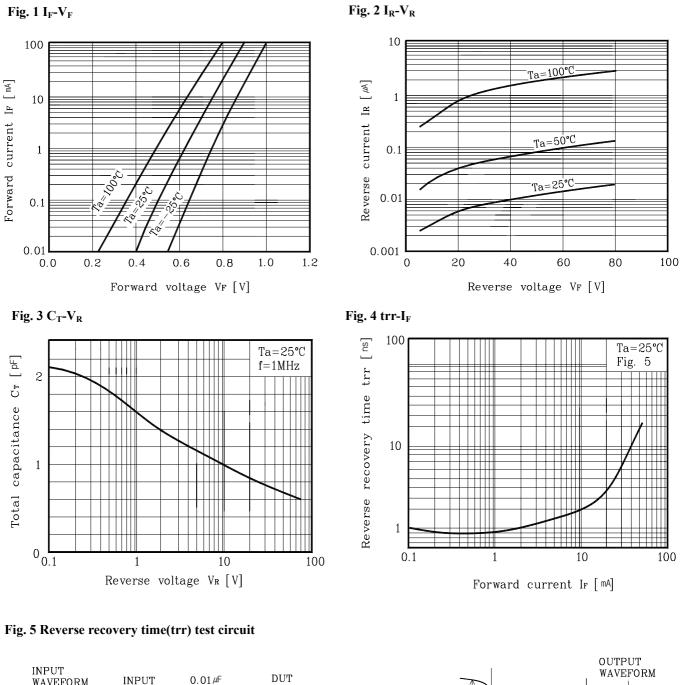
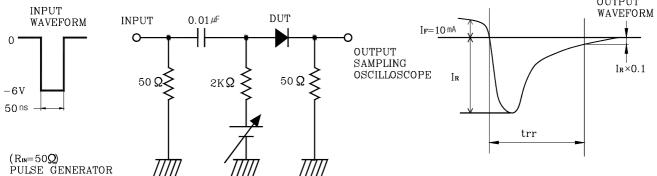


Fig. 1 I_F-V_F



SDS152A

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