

SDS2836E

Switching Diode

Features

• SMD package : SOT-523

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

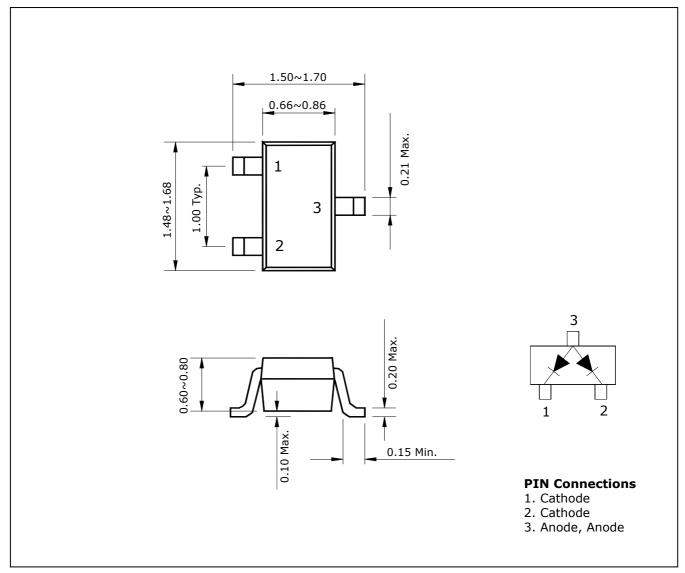
• Fast reverse recovery time : $t_{rr}=1.6ns(Typ.)$

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

Ordering Information

Type No.	Marking	Package Code		
SDS2836E	P2	SOT-523		

Outline Dimensions unit : mm



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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)	${\rm I_{FSM}}^*$	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 $\times 1.5$

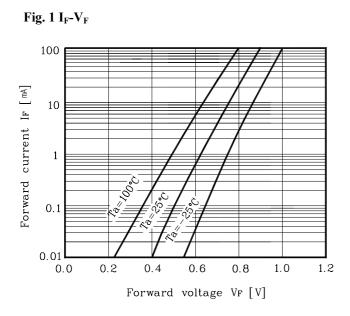
Electrical Characteristics

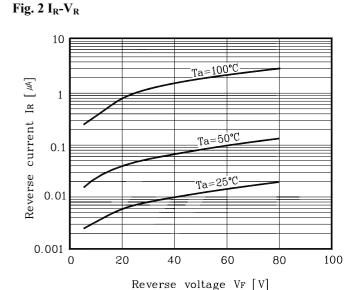
Ta=25°C

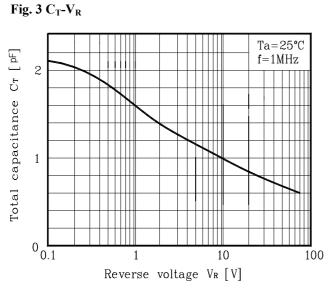
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	V _{F(1)}	I _F =1mA	-	0.6	-	
	V _{F(2)}	I _F =10mA	-	0.7	-	V
	V _{F(3)}	I _F =100mA	-	0.9	1.2	
Reverse current	I_{R}	V _R =80V	-	-	0.5	μΑ
Total capacitance	C _T	V _R =0, f=1MHz	-	2.2	4.0	pF
Reverse recovery time	t _{rr}	I _F =10mA (Fig. 5)	-	1.6	4.0	ns

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Electrical Characteristic Curves







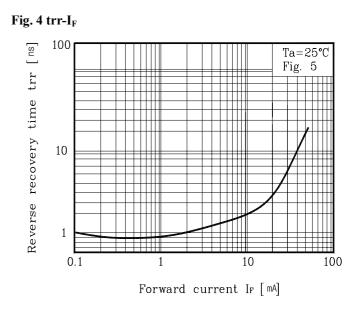
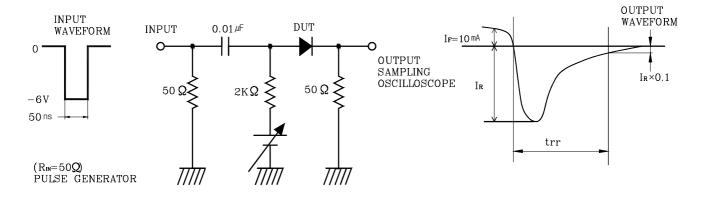


Fig. 5 Reverse recovery time(trr) test circuit



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