

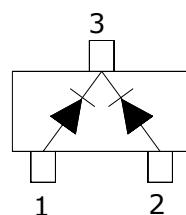
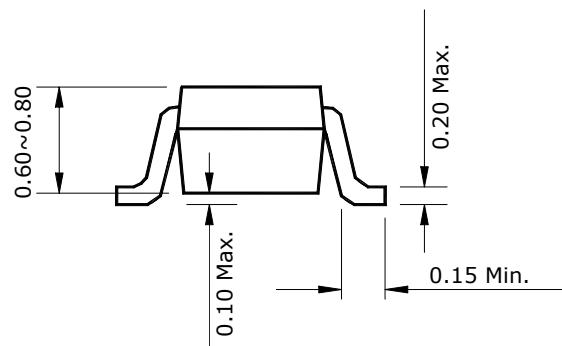
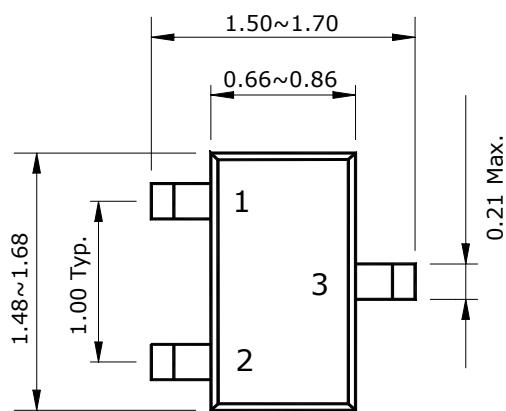
Features

- 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
SDS2838E	P3	SOT-523

Outline Dimensions

unit : mm


PIN Connections

1. Anode
2. Anode
3. Cathode, Cathode

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)	I _{FSM} [*]	2	A
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 ×1.5

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V _{F(1)}	I _F =1mA	-	0.6	-	V
	V _{F(2)}	I _F =10mA	-	0.7	-	
	V _{F(3)}	I _F =100mA	-	0.9	1.2	
Reverse current	I _R	V _R =80V	-	-	0.5	µA
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

Electrical Characteristic Curves

Fig. 1 I_F - V_F

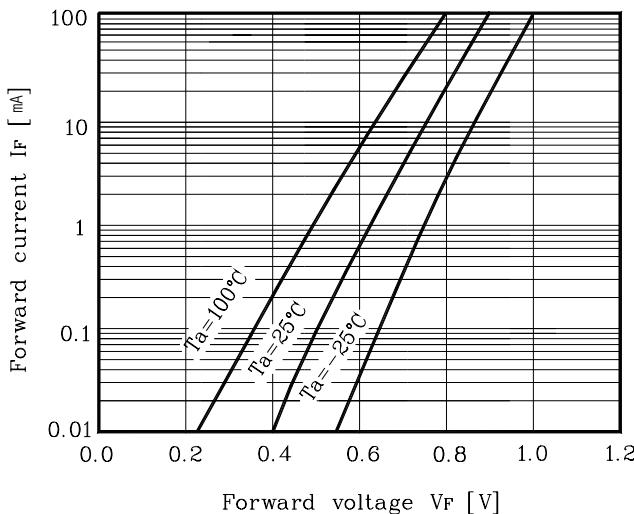


Fig. 2 I_R - V_R

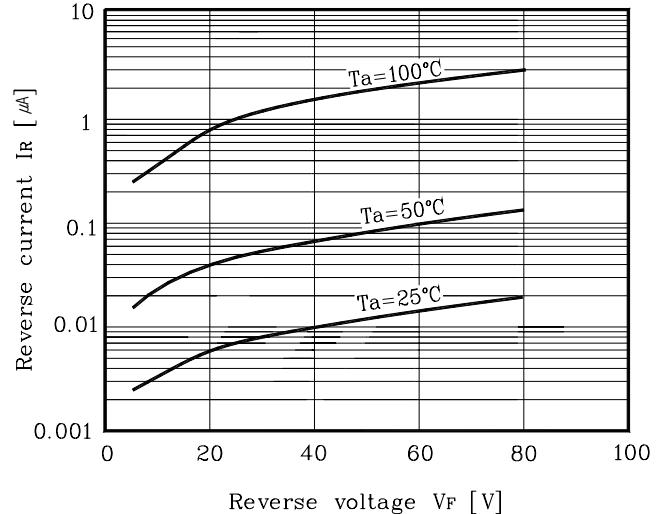


Fig. 3 C_T - V_R

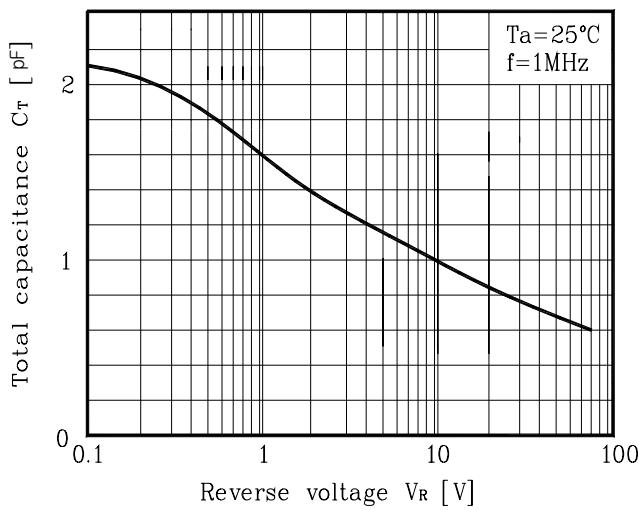


Fig. 4 trr- I_F

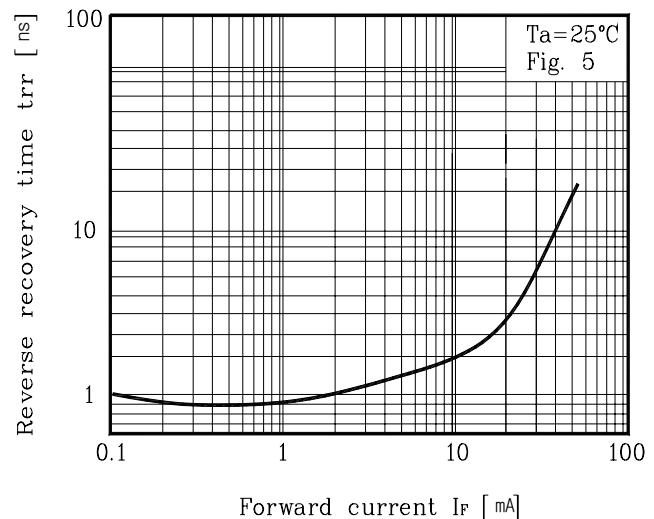
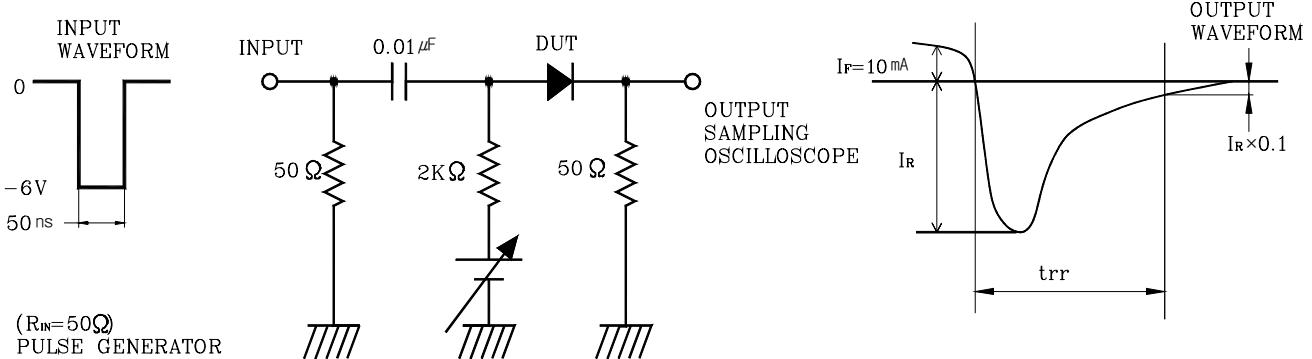


Fig. 5 Reverse recovery time(trr) test circuit



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