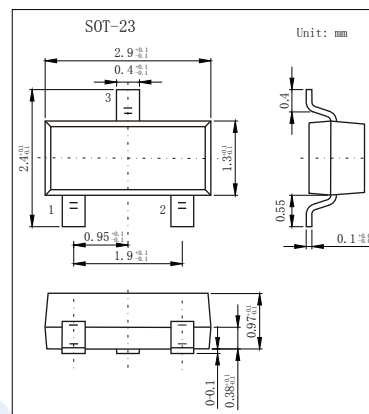
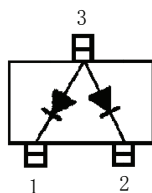


Switching Diodes

1SS181

■ Features

- Low forward voltage. : $V_F(3)=0.92V(\text{Typ.})$
- Fast reverse recovery time : $t_{rr}=1.6ns(\text{Typ.})$
- Small total capacitance : $C_T=2.2pF(\text{Typ.})$

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Peak reverse voltage	V_{RM}	85	V
Reverse voltage	V_R	80	V
Average forward current	I_o	100	mA
Peak forward current	I_{FM}	300	mA
Surge current (10ms)	I_{FSM}	2	A
Power dissipation	P	150	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R=100\ \mu\text{A}$	80			V
Forward voltage	V_{F1}	$I_F=1\ \text{mA}$		0.61		
	V_{F2}	$I_F=10\ \text{mA}$		0.74		
	V_{F3}	$I_F=100\ \text{mA}$		0.92	1.2	
Reverse voltage leakage current	I_{R1}	$V_R=30\ \text{V}$			0.1	uA
	I_{R2}	$V_R=80\ \text{V}$			0.5	
Capacitance between terminals	C_T	$V_R=0\ \text{V}, f=1\ \text{MHz}$		2.2	4	pF
Reverse recovery time	t_{rr}	$I_F=10\ \text{mA}$		1.6	4	ns

■ Marking

Marking	A3
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1SS181

Typical Characteristics

