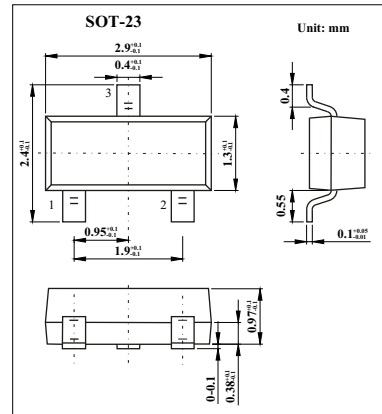
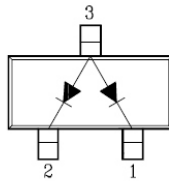


# KDS181-RTR

## Features

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



## Absolute Maximum Ratings $T_a = 25$

Parameter	Symbol	Rating	Unit
Maximum (peak) reverse voltage	$V_{RM}$	85	V
Reverse voltage	$V_R$	80	V
Average forward current	$I_o$	100	mA
Maximum (peak) forward current	$I_{FM}$	300	mA
Surge current (10 ms)	$I_{FSM}$	2	A
Power dissipation	$P_D$	150	mW
Junction Temperature	$T_j$	150	
Storage Temperature	$T_{stg}$	-55 to +150	

## Electrical Characteristics $T_a = 25$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F(1)}$	$I_F = 1 \text{ mA}$		0.61		V
	$V_{F(2)}$	$I_F = 10 \text{ mA}$		0.74		
	$V_{F(3)}$	$I_F = 100 \text{ mA}$		0.92	1.20	
Reverse current	$I_R$	$V_R = 80 \text{ V}$			0.5	$\mu\text{A}$
Total capacitance	$C_T$	$V_R = 0, f = 1.0 \text{ MHz}$		2.2	4.0	pF
Reverse recovery time	$t_{rr}$	$I_F = 10 \text{ mA}$		1.6	4.0	ns

## Marking

Marking	A3
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# KDS181-RTR

■ Typical Characteristics

