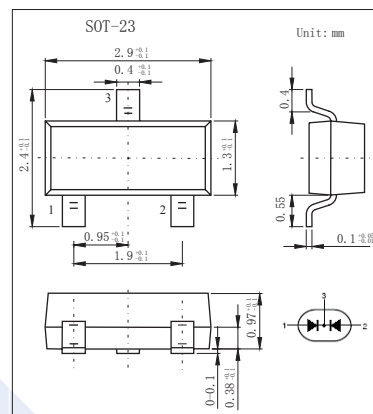


Switching Diodes

KDS184

■ Features

- Small Package
- Low forward voltage : $V_{F(3)} = 0.9\text{ V(Typ.)}$
- Fast Reverse Recovery Time : $t_{rr} = 1.6\text{ ns(Typ.)}$
- Small Total Capacitance : $C_T = 0.9\text{ pF(Typ.)}$

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

Parameter	Symbol	Rating	Unit
Peak Reverse voltage	V_{RM}	85	V
DC Blocking Voltage	V_R	80	
Average Rectified Output Current	I_o	100	mA
Peak forward surge current	I_{FM}	300	
Power Dissipation	P_D	150	mW
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 to 150	

■ 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}	$I_F = 1\ \text{mA}$		0.6		
	V_{F2}	$I_F = 10\ \text{mA}$		0.72		
	V_{F3}	$I_F = 100\ \text{mA}$		0.9	1.2	
Reverse voltage leakage current	I_{R1}	$V_R = 30\ \text{V}$			0.1	μA
	I_{R2}	$V_R = 80\ \text{V}$			0.5	
Capacitance between terminals	C_T	$V_R = 0\ \text{V}, f = 1\ \text{MHz}$		0.9	3	pF
Reverse recovery time	t_{rr}	$I_F = 10\ \text{mA}$		1.6	4	ns

■ Marking

Marking	B3
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Switching Diodes

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■ Typical Characteristics

