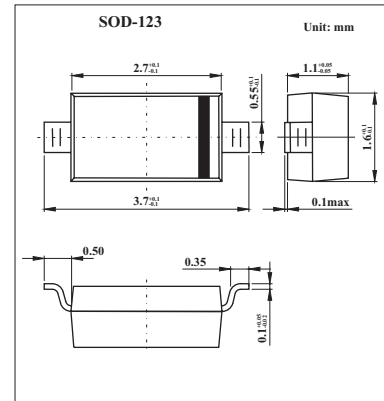


## Schottky Barrier Switching Diodes

KD103AW - KD103CW  
(SD103AW-SD103CW)

## ■ Features

- Low forward voltage drop.
- Guard ring construction for transient protection.
- Negligible reverse recovery time.

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

Parameter	Symbol	KD103AW	KD103BW	KD103CW	Unit
Peak repetitive peak reverse voltage	$V_{RRM}$				
Working peak	$V_{RWM}$	40	30	20	V
DC blocking voltage	$V_R$				
RMS reverse voltage	$V_{R(RMS)}$	28	21	14	V
Forward continuous current	$I_{FM}$	350			mA
Non-Repetitive Peak Forward Surge Current @ $t \leq 1.0\text{s}$	$I_{FRM}$	1.5			A
Power dissipation	$P_d$	400			mW
Thermal resistance junction to ambient	$R_{\theta JA}$	300			$^\circ\text{C}/\text{W}$
Storage temperature	$T_{stg}$	-65 to +125			$^\circ\text{C}$

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	KD103AW	$I_R = 100 \mu\text{A}$	40			V
	KD103BW		30			
	KD103CW		20			
Forward Voltage Drop	$V_{FM}$	$I_F = 20\text{mA}$			0.37	V
		$I_F = 200\text{mA}$			0.60	
Peak Reverse Current	KD103AW	$V_R = 30\text{V}$			5	$\mu\text{A}$
	KD103BW	$V_R = 20\text{V}$				
	KD103CW	$V_R = 10\text{V}$				
Total Capacitance	$C_T$	$V_R = 0\text{V}, f = 1.0\text{MHz}$		50		pF
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 200\text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		10		ns

## ■ Marking

NO.	KD103AW	KD103BW	KD103CW
Marking	S4	S5 or S4	S6 or S5 or S4