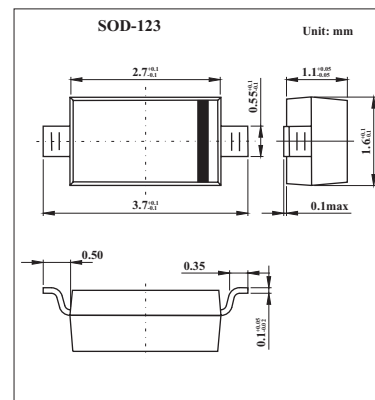


## Schottky Barrier Switching Diodes

### KD103AW - KD103CW (SD103AW-SD103CW)

#### ■ Features

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



#### ■ Absolute Maximum Ratings Ta = 25°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 @ $t \leq 1.0s$	$I_{FRM}$	1.5			A
Power dissipation	$P_d$	400			mW
Thermal resistance junction to ambient	$R_{\theta JA}$	300			°C/W
Storage temperature	$T_{stg}$	-65 to +125			°C

#### ■ Electrical Characteristics Ta = 25°C

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

#### ■ Marking

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