

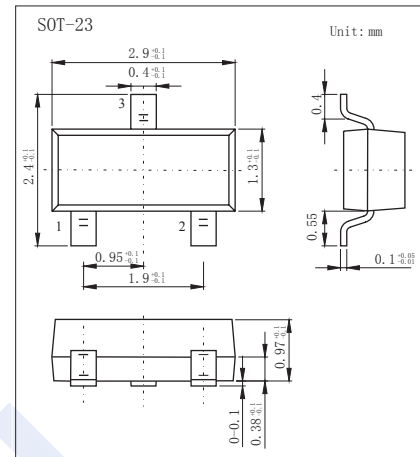
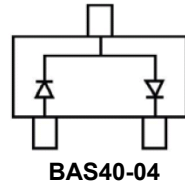
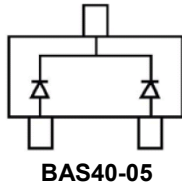
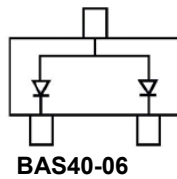
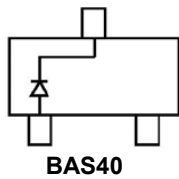
## Schottky Diodes

### BAS40/-04/-05/-06

(KAS40/-04/-05/-06)

#### ■ Features

- Low Forward Voltage
- Fast Switching



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

Parameter	Symbol	Rating	Unit
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_{FM}$	200	mA
Power Dissipation	$P_d$	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
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	$V_R$	$I_R = 100 \mu\text{A}$	40			V
Forward voltage	$V_{F1}$	$I_F = 1 \text{mA}$			0.38	
	$V_{F2}$	$I_F = 40 \text{mA}$			1	
Reverse voltage leakage current	$I_{R1}$	$V_R = 30 \text{V}$			200	nA
Junction capacitance	$C_j$	$V_R = 0 \text{V}, f = 1 \text{MHz}$			5	pF
Reverse recovery time	$t_{rr}$	$I_F = I_R = 10 \text{mA}, I_{rr} = 1 \text{mA}, R_L = 100 \Omega$			5	ns

#### ■ Marking

NO	BAS40	BAS40-06	BAS40-05	BAS40-04
Marking	43•	46	45	44

# Schottky Diodes BAS40/-04/-05/-06 (KAS40/-04/-05/-06)

■ Typical Characteristics

