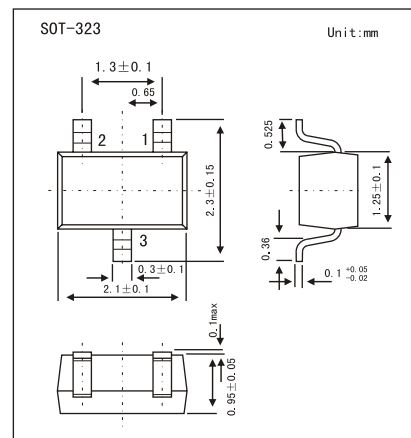
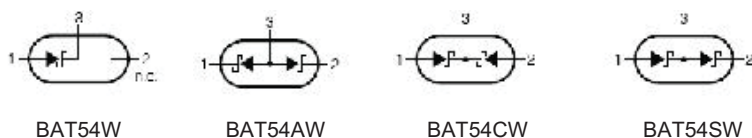


Schottky Diodes

BAT54W/AW/CW/SW (KAT54W/AW/CW/SW)

■ Features

- Extremely Fast Switching Speed
- Low forward voltage

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

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Forward Continuous Current	I_{FM}	200	mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	600	
Repetitive Peak Forward Current @ $t \leq 1\text{s}, \delta \leq 0.5$	I_{FRM}	300	
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 Voltage	$V_{(BR)}$	$I_R = 100 \mu\text{A}$	30			V
Forward Voltage	V_{F1}	$I_F = 0.1 \text{ mA}$			0.24	
	V_{F2}	$I_F = 1 \text{ mA}$			0.32	
	V_{F3}	$I_F = 10 \text{ mA}$			0.40	
	V_{F4}	$I_F = 30 \text{ mA}$			0.50	
	V_{F5}	$I_F = 100 \text{ mA}$			1	
Leakage Current	I_R	$V_R = 25 \text{ V}$			2	μA
Diode Capacitance	C_D	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$			10	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			5	ns

■ Marking

Type	BAT54W	BAT54AW	BAT54CW	BAT54SW
Marking	KL5	KL6	KL7	KL8

Schottky Diodes

BAT54W/AW/CW/SW (KAT54W/AW/CW/SW)

■ Typical Characteristics

