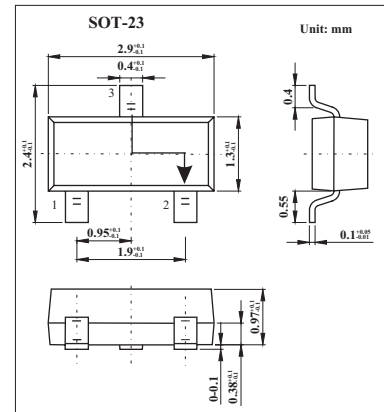


Surface Mount Switching Diode

KAL99(BAL99)

■ Features

- Fast switching speed
- Surface mount package
- Well suited for automated assembly process

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

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	70	V
Working peak reverse voltage	V_{RWM}	70	V
DC Blocking voltage	V_R	70	V
Peak forward surge current	I_{FSM}	2	A
		1	
		0.5	
Average forward current	I_{FAV}	250	mA
Power dissipation	P_{tot}	350	mW
Thermal resistance, junction-to-ambient	R_{thJA}	357	K/W
Junction and storage temperature range	T_j, T_{stg}	-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Rating	Unit
Forward voltage	V_F	$I_F = 1\text{ mA}$	0.715	V
		$I_F = 10\text{ mA}$	0.855	
		$I_F = 50\text{ mA}$	1	
		$I_F = 150\text{ mA}$	1.25	
Reverse current	I_R	$V_R = 70\text{ V}$	2.5	μA
		$V_R = 70\text{ V}; T_j = 150^\circ\text{C}$	100	μA
		$V_R = 25\text{ V}; T_j = 150^\circ\text{C}$	30	μA
Diode capacitance	C_d	$f = 1\text{ MHz}; V_F = V_R = 0\text{ V};$	1.5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}, R_L = 100\ \Omega, V_R = 6\text{ V}$	6	ns

■ Marking

Marking	KJF
---------	-----