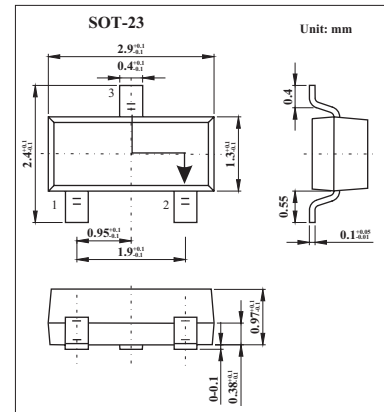


Surface Mount Switching Diode

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	VRRM	70	V
Working peak reverse voltage	VRWM	70	V
DC Blocking voltage	VR	70	V
Peak forward surge current	IFSM	$t=1\ \mu\text{s}$	2
		$t=1\text{ms}$	1
		$t=1\text{s}$	0.5
Average forward current	IFAV	250	mA
Power dissipation	Ptot	350	mW
Thermal resistance.junction-to-ambient	RthJA	357	K/W
Junction and storage temperature range	Tj, Tstg	-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Rating	Unit
Forward voltage	VF	IF = 1 mA	0.715	V
		IF = 10 mA	0.855	
		IF = 50 mA	1	
		IF = 150 mA	1.25	
Reverse current	IR	VR = 70 V	2.5	μA
		VR = 70 V; Tj = 150 $^\circ\text{C}$	100	μA
		VR = 25 V; Tj = 150 $^\circ\text{C}$	30	μA
Diode capacitance	Cd	f = 1 MHz; VF=VR = 0 V;	1.5	pF
Reverse recovery time	trr	IF=IR=10mA to IR=1mA, RL=100 Ω , VR=6V	6	ns

■ Marking

Marking	KJF
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