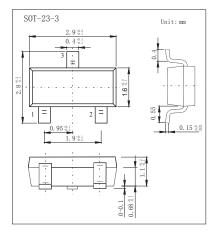
SMD Type Diodes

Switching Diodes BAV99 (KAV99)

■ Features

- Small plastic SMD package.
- High switching sped: max.4 ns.
- Repetitive peak forward current: max.450 mA.





■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	VRRM	85	V
Continuous reverse voltage	VR	75	٧
Continuous forward current(single diode loaded *) (double diode loaded *)	lF	215 125	mA
Repetitive peak forward current	IFRM	450	mA
Non-repetitive peak forward current Tj=25 °C t=1 μ s		4	
t=1ms	IFSM	1	Α
t=1s		0.5	
power dissipation *	PD	250	mW
Thermal resistance from junction to tie-point	Rth j-tp	360	K/W
Thermal resistance from junction to ambient *	Rth j-a	500	K/W
Junction Temperature	Tj	150	$^{\circ}$ C
Storage Temperature Range	Tstg	-65 to +150	$^{\circ}\mathbb{C}$

^{*} Device mounted on an FR4 printed-circuit board.

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditions	Max	Unit
		IF =1 mA	715	mV
Converse valte as	VF	IF =10 mA	855	mV
Forward voltage	VF	IF =50 mA	1	V
		IF =150 mA	1.25	V
Reverse current	lR	VR =75 V VR =25 V; Tj= 150 ℃ VR =75 V; Tj= 150 ℃	1 30 50	μ А
Diode capacitance	Cd	V _R =0 V, f= 1 MHz	1.5	pF
Reverse recovery time	trr	when switched from IF= 10 mA to IR=10mA;RL=100 Ω ; measured at IR= 1mA	4	nS
Forward recovery voltage	Vfr	I _F = 10 mA, tr= 20 ns	1.75	V

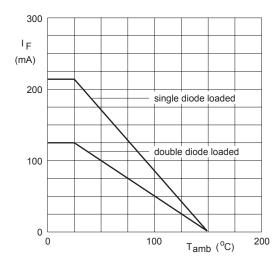
Marking

|--|

SMD Type Diodes

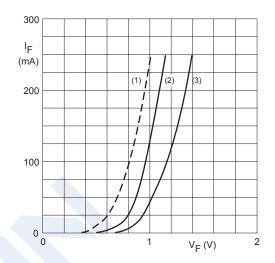
BAV99 (KAV99)

■ Typical Characteristics



Device mounted on an FR4 printed-circuit board.

Fig.2 Maximum permissible continuous forward current as a function of ambient temperature.



- (1) $T_j = 150$ °C; typical values.
- (2) $T_j = 25$ °C; typical values.
- (3) $T_j = 25$ °C; maximum values.

Fig.3 Forward current as a function of forward voltage.

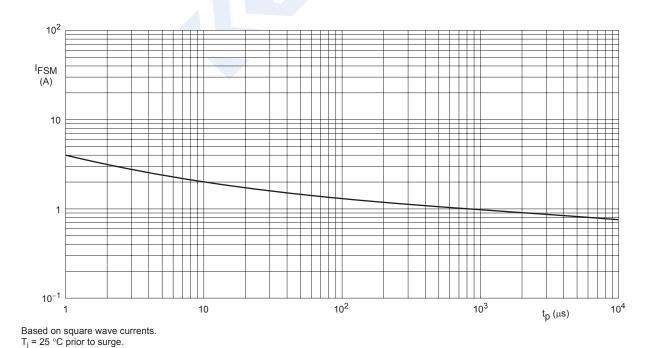


Fig.4 Maximum permissible non-repetitive peak forward current as a function of pulse duration.

SMD Type Diodes

BAV99 (KAV99)

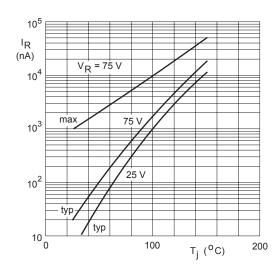


Fig.5 Reverse current as a function of junction temperature.

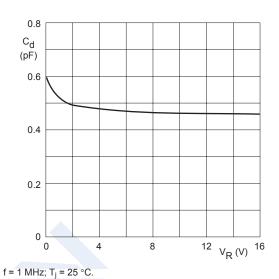


Fig.6 Diode capacitance as a function of reverse voltage; typical values.

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