

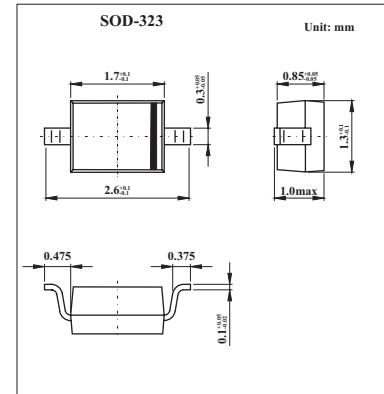
Surface Mount Fast Switching Diode

KAV19WS - KAV21WS

(BAV19WS - BAV21WS)

■ Features

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High Conductance



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	KAV19WS	KAV20WS	KAV21WS	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	120	200	250	V
Peak repetitive peak reverse voltage	V_{RRM}				
Working peak	V_{RWM}	100	150	200	V
DC blocking voltage	V_R				
RMS reverse voltage	$V_{R(RMS)}$	71	106	141	V
Average Rectified Output Current	I_O		200		mA
Forward continuous current	I_{FM}		400		mA
Non-Repetitive Peak Forward Surge Current @t=1.0 μs	I_{FSM}		2.5		A
@t=1.0s			0.5		
Non-Repetitive Peak Forward Surge Current	I_{FRM}		625		mA
Power dissipation	P_d		200		mW
Thermal resistance junction to ambient	$R_{\theta JA}$		625		°C/W
Operating and Storage Temperature Range	T_J, T_{STG}		-65 to +150		°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage*	$V_{(BR)R}$	$I_R = 100 \mu A$	120 200 250			V
Forward Voltage *	V_{FM}	$I_F = 100mA$ $I_F = 200mA$			1.0 1.25	V
Peak Reverse Current	I_{RM}	$T_J = 25^\circ C$ $T_J = 100^\circ C$			100 15	nA μA
@ Rated DC Blocking Voltage*						
Junction Capacitance	C_j	$V_R = 0V, f = 1.0MHz$			5.0	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 30mA, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			50	ns

* Short duration pulse test used to minimize self-heating effect.

■ Marking

NO.	KAV19WS	KAV20WS	KAV21WS
Marking	A8 or T2 or T3	T2 or T3	T3