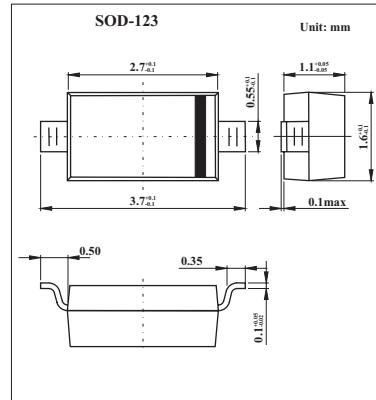


Surface Mount Switching Diode

KAV19W - KAV21W (BAV19W - BAV21W)

■ Features

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



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	KAV19W	KAV20W	KAV21W	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	120	200	250	V
Peak repetitive peak reverse voltage	V _{RPM}				
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 μ s @t=1.0s	I _{FSM}		2.5		A
			0.5		
Non-Repetitive Peak Forward Surge Current	I _{FRM}		625		mA
Power dissipation	P _d		250		mW
Thermal resistance junction to ambient	R _{θJA}		500		°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150			°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
KAV19W Reverse breakdown voltage*	V _{(BR)R}		120			V
KAV20W KAV21W		I _R =100 μ A	200			
			250			
Forward Voltage *	V _{FM}	I _F = 100mA I _F = 200mA			1.0 1.25	V
Peak Reverse Current ?@ Rated DC Blocking Voltage*	I _{RM}	T _j = 25 °C T _j = 100 °C			100 15	nA μ A
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 X I _R , R _L = 100 Ω			50	ns

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

■ Marking

NO.	KAV19W	KAV20W	KAV21W
Marking	A8 or T2 or T3	T2 or T3	T3