

Green Products

BAV70W SWITCHING DIODE

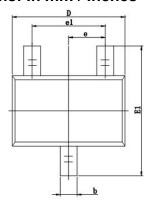
Features:

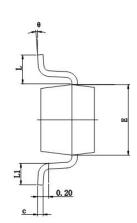
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

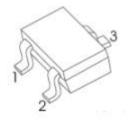
Mechanical Data:

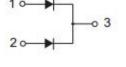
- Case: SOT-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Marking: KJA
- Weight: 0.0052grams(approx)

Mechanical Dimensions: In mm / Inches









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Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.200	0.400	800.0	0.016	
С	0.080	0.150	0.003	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.450	0.085	0.096	
е	0.650 TYP		0.026	TYP	
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021	REF	
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

SOT-323

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •



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Ordering Information:

Device	Package	Shipping
BAV70W	SOT-323(Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings @Ta=25℃

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	lo	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	P _D	200	mW
Thermal Resistance, Junction to Ambient	R _{θJA}	625	°C/W
Junction and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

Electrical Characteristics @Ta=25℃

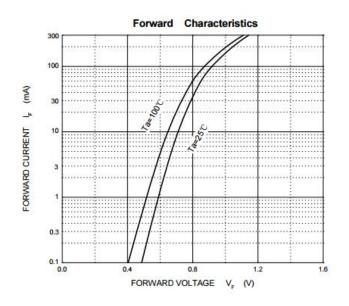
Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V _F	@ 1mA, Pulse, T _J = 25 °C	0.715	V
		@ 10mA, Pulse, T _J = 25 °C	0.855	
		@ 50mA, Pulse, T _J = 25 °C	1.0	
		@ 150mA, Pulse, T _J = 25 °C	1.25	
Reverse Current	I _{R1}	@V _R = 75V, Pulse,	2.5	μA
		T _J = 25 °C		
	I _{R2}	@ V _R = 20V, Pulse,	25	nA
		T _J = 25°C		
Capacitance between terminals	Ст	@VR = 0 V, Tc=25℃	2	pF
		fsig = 1MHz		
Reverse Recovery Time	t _{rr}	I_F =10mA I_R = 10mA	4	ns
_		T_J = 25 °C I_{rr} =1 mA R_L =100 Ω		

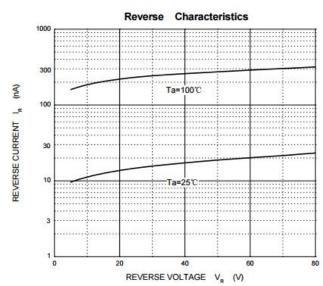
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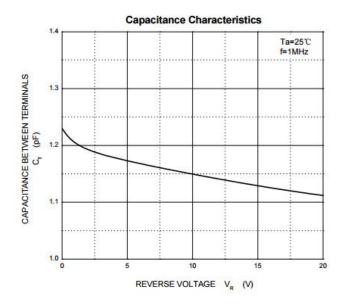
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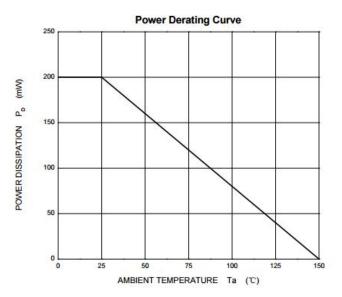
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Typical Characteristics









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