

BAV19-21W

Surface mount switching diode

Features

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

Mechanical Data

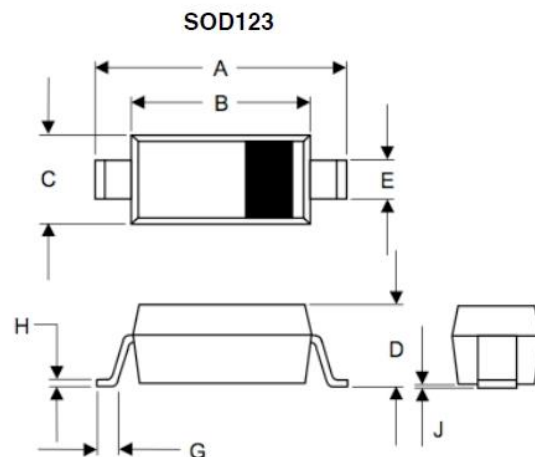
- Surface mount fast switching diode

Packing & Order Information

3,000/Reel

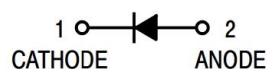


**RoHS
COMPLIANT**



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	----	.053	----	1.35	
E	.012	.031	0.30	.78	
G	.006	----	0.15	----	
H	----	.01	----	.25	
J	----	.006	----	.15	

Graphic symbol



ORDERING INFORMATION

Type No.	Marking	Package Code
BAV19W	A8	SOD-123
BAV20W	T2	SOD-123
BAV21W	T3	SOD-123

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	BAV19W	BAV20W	BAV21W	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				

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MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	BAV19W	BAV20W	BAV21W	Unit
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	141	V
Forward Continuous Current	I_{FM}	400			mA
Average Rectified Output Current	I_D	200			mA
Non-Repetitive Peak Forward Surge Current @t=1.0 μ s	I_{FSM}				A
@t=1.0 s					
Repetitive Peak Forward Surge Current	I_{FRM}	625			mA
Power Dissipation	P_D	250			mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500			°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150			°C

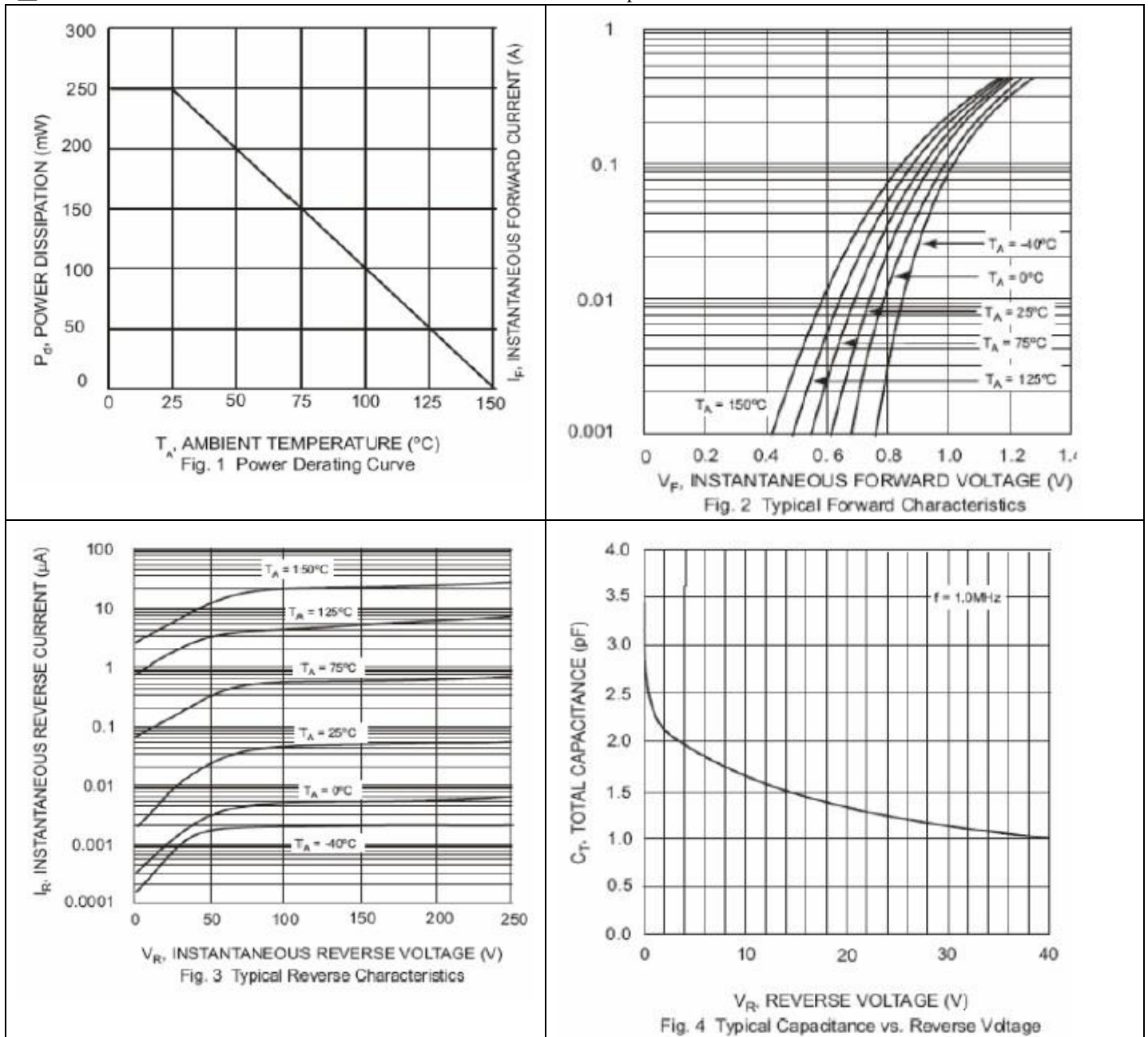
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Conditions	Symbol	Min	Max	Unit
Maximum Forward Voltage	IF=100mA	V_{F1}	--	1.0	V
	IF=200mA	V_{F2}	--	1.25	
Reverse Current BAV19W BAV20W BAV21W	VR=100V VR=150V VR=200V	I_R	--	0.1	μ A
Junction Capacitance	VR=0, f=1.0MHz	C_j	--	5.0	pF
Reverse Recovery Time	IF=IR=30mA, Irr=0.1×IR, RL=100 Ω	T_{RR}	--	50	ns

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■ TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



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