

BAV16W_1N4148W

FAST SWITCHING DIODES

Features

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

Mechanical Data

- Case: Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

- Polarity: Polarity symbols marked on case
- Marking: T6, T4

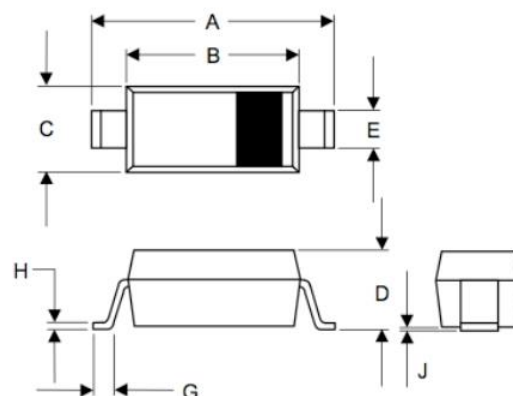
Packing & Order Information

3,000/Reel



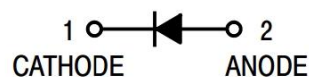
RoHS
COMPLIANT

SOD123



DIMENSIONS					NOTE
DIM	INCHES		MM		
	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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @TA=25°C

Symbol	Parameter	Limits	Unit
VRRM	Peak repetitive peak reverse voltage	75	V
VRWM	Working peak		
VR	DC Blocking voltage		
VR(RMS)	RMS Reverse voltage	53	V
IFM	Forward continuous current	300	mA
IO	Average rectified output current	150	mA
IFSM	Peak forward current @ =1.0us @ =1.0s	2.0 1.0	A
Pd	Power dissipation	400	mW

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Maximum ratings and electrical characteristics, Single diode @TA=25°C

Symbol	Parameter	Limits	Unit
R θ JA	Thermal resistance junction to ambient	315	K/W
Tj	Junction temperature	125	°C
TSTG	Storage temperature	-65 to +150	°C
VRM	Non-Repetitive peak reverse voltage	100	V

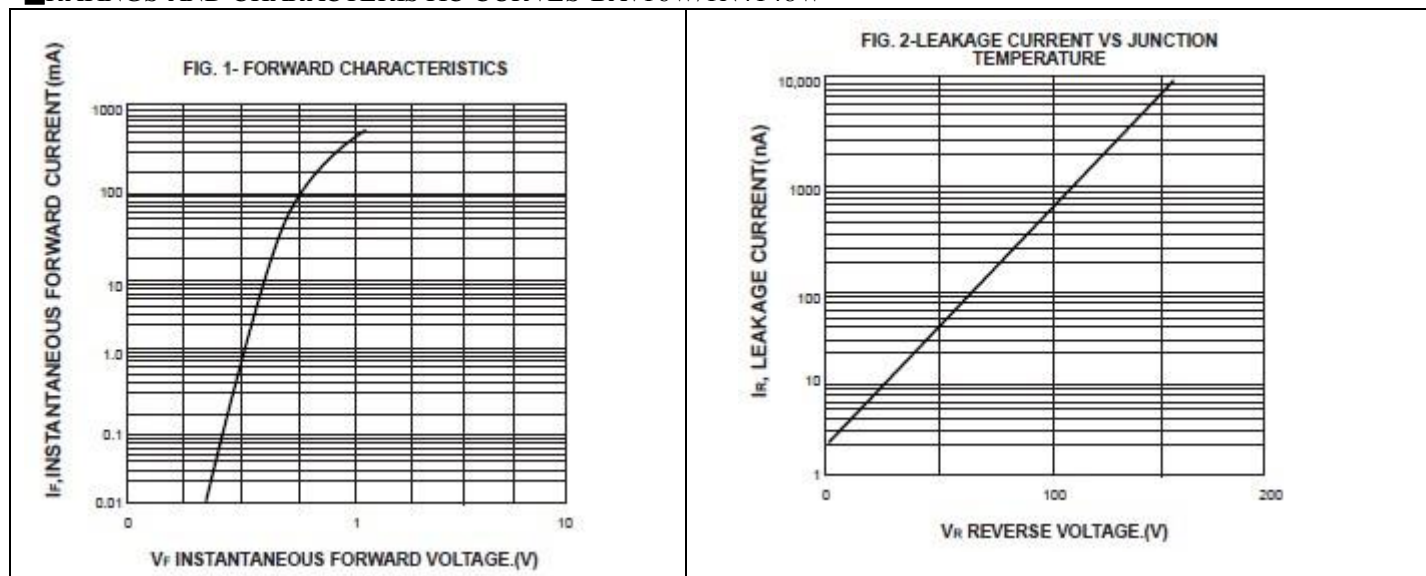
Electrical ratings @TA=25°C

Symbol	Parameter	Test Conditions	Min	Typ.	Max.	Units
VF1	Forward voltage	IF=1.0mA			0.715	V
VF2		IF=10mA			0.855	V
VF3		IF=50mA			1.0	V
VF4		IF=150mA			1.25	V
IR1	Reverse current	VR=75V			1	uA
IR2		VR=20V			25	nA
CT	Capacitance between terminals	VR=0V,f=1.0MHz			2	pF
Trr	Reverse recovery time	IF=IR=10mA Irr=0.1XIR,RL=100Ω			4	ns

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■ RATINGS AND CHARACTERISTIC CURVES BAV16W/1N4148W



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