



Technical Data Data Sheet N0589, Rev. - **Green** Products

BAV16W SCHOTTKY BARRIER DIODE

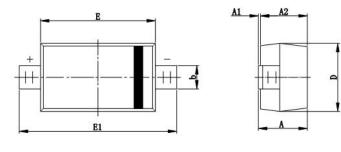
Features:

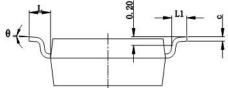
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance

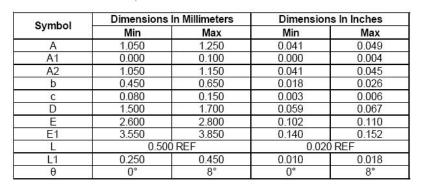
Mechanical Data:

- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: T6
- Weight: 0.01 grams(approx)

Mechanical Dimensions: In mm / Inches







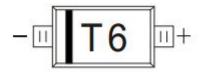
SOD-123(CJ)

- China Germany Korea Singapore United States •
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Marking Diagram:



Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
BAV16W	SOD-123(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 and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	75	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	V
RMS Reverse Voltage	V _{R(RMS)}	71	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	lo	150	mA
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	2	А
Power Dissipation	Pd	400	mW
Typical Thermal Resistance Junction to Ambient	R _{0JA}	250	°C/W
Junction Temperature Range	TJ	150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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T6 = Part Name



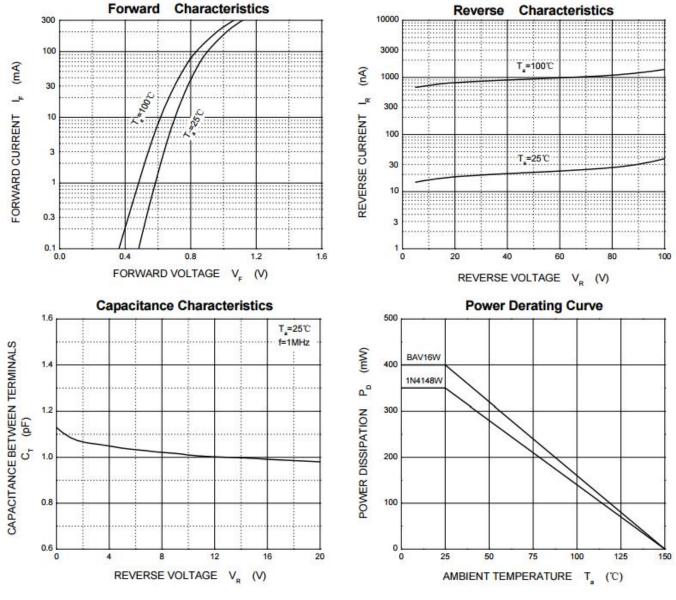
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Characteristic	Symbol	Max	Unit	Test Condition
Forward Voltage	V _F	0.715 0.855 1.0 1.25	V	I _F =1mA I _F =10mA I _F =50mA I _F =150mA
Reverse Leakage Current	I _R	1	μA	V _R =75V
Capacitance between terminals	Ст	2	pF	V _R =0V,f=1.0MHz
Reverse recovery time	t _{rr}	4	ns	I _F = I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω

Typical Characteristics



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