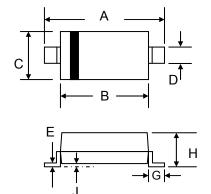


SURFACE MOUNT FAST SWITCHING DIODE



Features

- Silicon Epitaxial Planar Die Construction
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-123				
Dim	Min	Max		
Α	3.60	3.90		
В	2.50	2.80		
С	1.40	1.80		
D	0.50	0.70		
Е	_	0.20		
G	0.25	_		
Н	0.95	1.35		
J	_	0.12		
All Dimensions in mm				

Mechanical Data

Case: SOD-123, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

• Weight: 0.01 grams (approx.)

Marking: Device Code, See Page 3

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Characteristic		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		VRSM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	75	V
Repetitive Peak Forward Current		IFRM	300	mA
Continuous Forward Current		lo	150	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	IFSM	2.0 1.0	А
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150	°C

Thermal Characteristics

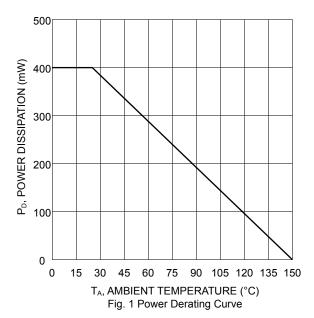
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	400	mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	315	°C/W

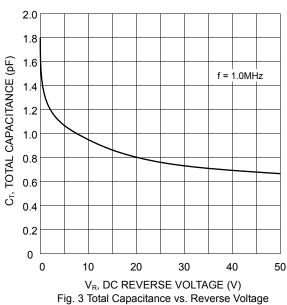
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

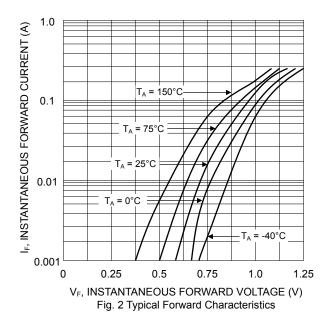


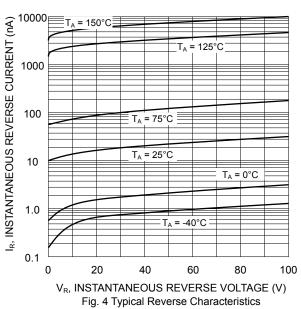
Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	@ IR = 1.0µA	V(BR)	100			V
Forward Voltage Drop	@ IF = 10mA @ IF = 150mA	VFM			0.855 1.25	V
Peak Reverse Leakage Current	@ VR = 20V @ VR = 75V	IRM			25 1.0	nA μA
Diode Capacitance (VR = 0V, f = 1.0MHz)		C _D			2.0	pF
Reverse Recovery Time (IF = IR = 10mA, IR	trr			4.0	nS	





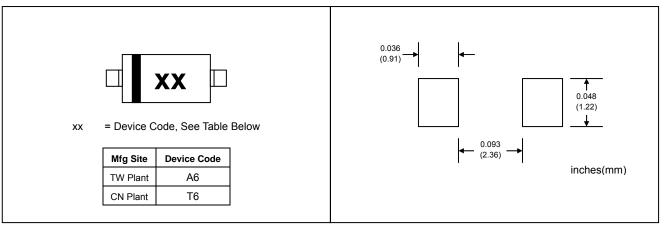




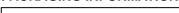


MARKING INFORMATION

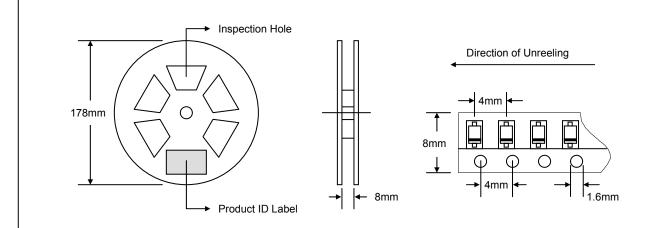
RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment. 2. Components are packed in accordance with EIA standard 481-1 and 481-2.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
BAV16W-T1	SOD-123	3000/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BAV16W-T1-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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