

BAV70W

SURFACE MOUNT FAST SWITCHING DIODE

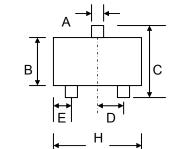


Features

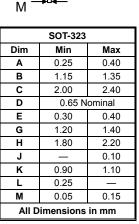
- Dual Diode Common Cathode
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0

Mechanical Data

- Case: SOT-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 0.006 grams (approx.)
- Mounting Position: Any
- Marking: Device Code, See Page 3
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



TOP VIEW



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Maximum Ratings @T_A=25°C unless otherwise specified

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
Forward Continuous Current		lf	200	mA
Repetitive Peak Forward Current		IFRM	450	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

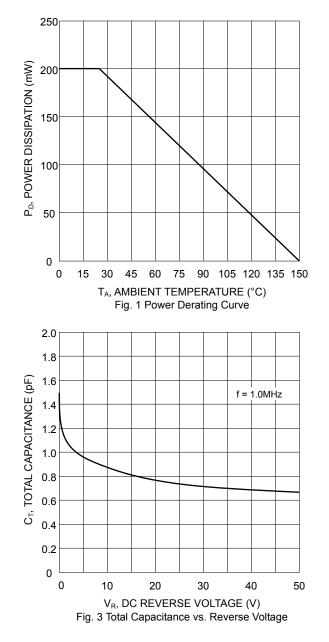
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R ja	625	°C/W

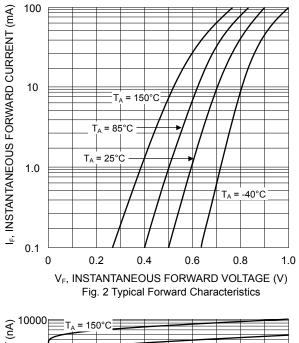
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

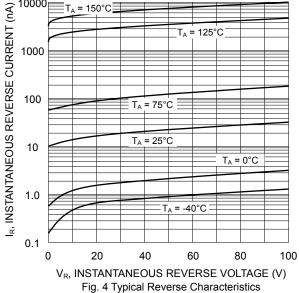


Electrical Characteristics $@T_A=25^{\circ}C$ unless otherwise specified

Character	Symbol	Min.	Тур.	Max.	Unit	
Reverse Breakdown Voltage	@ IR = 100µA	V(BR)	75			V
Forward Voltage Drop Peak Reverse Leakage Current	@ IF = 1.0mA @ IF = 10mA @ IF = 50mA @ IF = 150mA @ IF = 150mA @ VR = 75V, TJ = 25°C @ VR = 25V, TJ = 150°C	Vfm			0.715 0.855 1.0 1.25 2.5 30	V
Diode Capacitance (VR = 0V, f = 1.0N	@ VR = 75V, TJ = 150°C				50 50 1.5	pF
Reverse Recovery Time (IF = IR = 10	trr			6.0	nS	

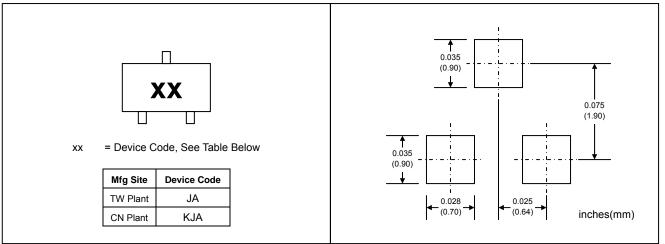






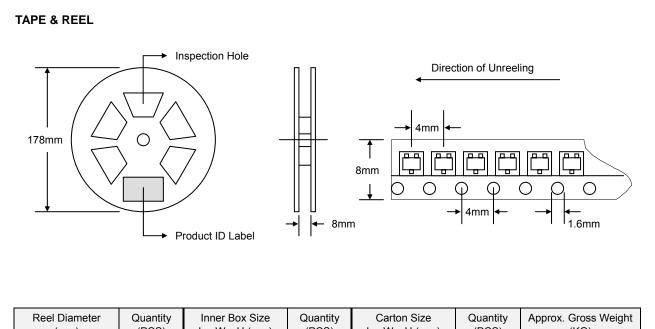


MARKING INFORMATION



RECOMMENDED FOOTPRINT

PACKAGING INFORMATION



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

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
BAV70W-T1	SOT-323	3000/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BAV70W-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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