



SURFACE MOUNT, LOW LEAKAGE SWITCHING DIODE

VOLTAGE 100 Volt POWER 200mWatt SOT-

FEATURES

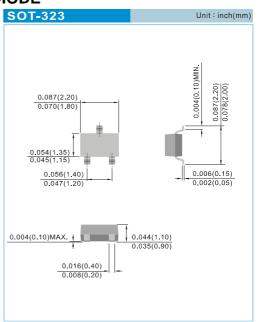
- · Suface mount package ideally suited for automatic insertion.
- · Very low leakage current. 2pA typical at VR=75V.
- Low capacitance. 4pF max at VR=0V, f=1MHz
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

· Case: SOT-323 plastic

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx weight: 0.00018 ounces, 0.005 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	BAV170W	BAV199W	Unit
Marking code	-	P3	PB	-
Reverse voltage	V _R	7	V	
Peak reverse voltage	V_{RM}	10	V	
Continuous forward current	I _F	0	А	
Non-repetitive peak forward surge current at $t=1\mu s$	I _{FSM}	4		А
Power dissipation (Note 1)	P _{TOT}	200		mW
Thermal resistance, junction to ambient (Note 1)	$R_{\theta JA}$	625		°C/W
Junction temperature range	TJ	-55 to +150		°C
Storage temperature range	T _{STG}	-55 to +150		°C
Circuit figure	-	Common Cathode	Series	-

NOTE :

1. FR-4 Board = $70 \times 60 \times 1$ mm.

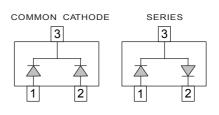


FIG.16(TOP VIEW)

FIG.17(TOP VIEW)





ELECTRICAL CHARACTERISTICS (each diode) (TA=25°C, unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V(BR)	I _R =100 μ A	75	-	-	٧
Reverse Current	l R	V _R =75V V _R =75V,T _J =150°C		0.002	5 80	nA
Forward Voltage	VF	IF=1 mA IF=10 mA IF=50 mA IF=150 mA	- - - -	- - - -	0.9 1 1.1 1.25	V
Total Capacitance	Ст	VR=0V, f=1MHz	-	-	2	pF
Reverse Recovery Time	T _{RR}	I _F =I _R =10mA, R _L =100Ω	-	-	3	μS

CHARACTERISTIC CURVES (each diode)

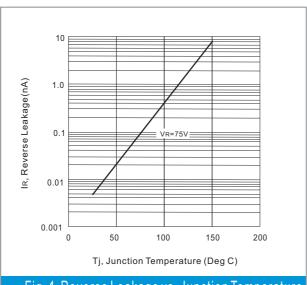


Fig. 1-Reverse Leakage vs. Junction Temperature

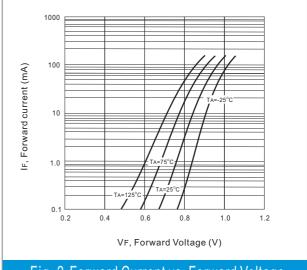


Fig. 2-Forward Current vs. Forward Voltage

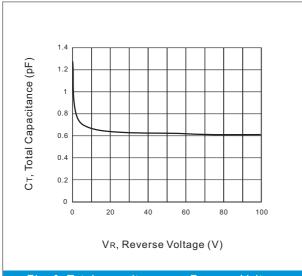


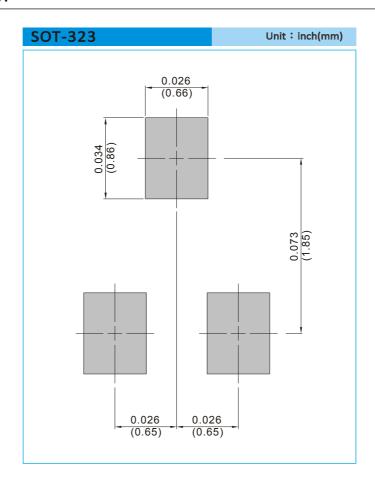
Fig. 3- Total capacitance vs. Reverse Voltage

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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

BAV170W_R1_00001 BAV170W_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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