

Unit : inch(mm)

0.036(0.90)

0.078(1.95)

0.014(0.35)

+ 0.006(0.15) + 0.002(0.05)

0.012(0.30)MIN.

0.107(2.7)

# BAV19WS-AU~BAV21WS-AU

### SURFACE MOUNT SWITCHING DIODES

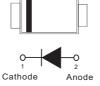
VOLTAGE 120-250 Volt POWER 200mWatt

### FEATURES

- · Fast switching speed.
- · Surface mount package ideally suited for automatic insertion
- Electrically identical to Standard JEDEC
- High conductance
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams



SOD-323

0.054(1.35)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER			BAV19WS-AU BAV20WS-AU BAV21V		BAV21WS-AU	UNITS
Marking Code			A8 A80		A82	
Reverse Voltage			100 150		200	V
Peak Reverse Voltage		Vrm	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f $\geq$ 50 Hz		Ιo	200			mA
Peak Forward Surge Current, 0.001ms		I FSM	4			А
Power Dissipation Derate Above 25°C		Ρτοτ	200			mW
Maximum Forward Voltage at 0.1A		VF	1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage TJ=25°C		l r	0.1			μΑ
Typical Junction Capacitance (Note 1)		СЛ	5			рF
Maximum Reverse Recovery Time (Note 2)		Trr	50			ns
Maximum Thermal Resistance	(Note 3) (Note 4)	Reja Rejc			°C / W	
Operating Junction and Storage Temperature Range		Тј,Тѕтс	-55 to +150			°C

NOTE :

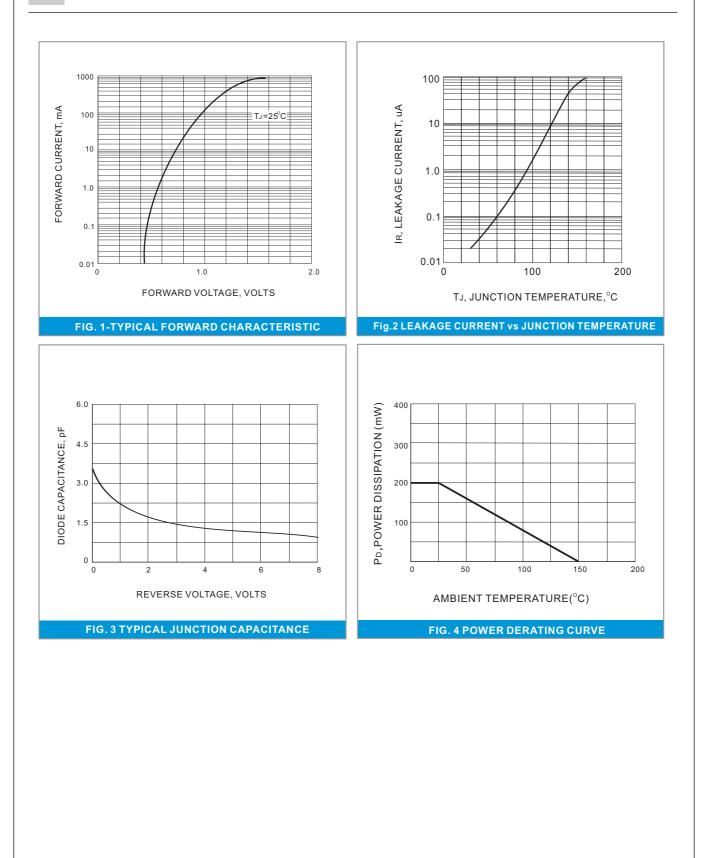
1.CJ at VR=0, f=1MHZ

2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\Omega$ 

 $\ensuremath{\mathsf{3.Mounted}}\xspace$  with minmum recommended pas eize, PC Board FR4

4.Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area

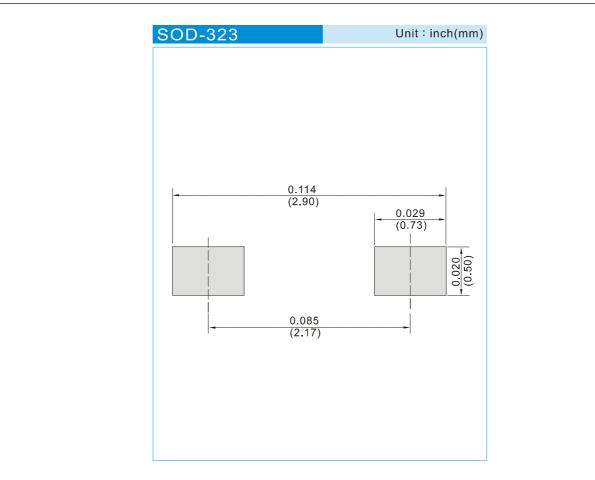




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### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel



## BAV19WS-AU~BAV21WS-AU

### Part No\_packing code\_Version

BAV19WS-AU\_R1\_000A1 BAV19WS-AU\_R2\_000A1

### For example :

RB500V-40\_R2\_00001 Т

**Serial number** -----

Part No.

- Version code means HF
- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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					



# BAV19WS-AU~BAV21WS-AU

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