



# BAS21W-AU

## SURFACE MOUNT SWITCHING DIODES

|                |              |              |              |
|----------------|--------------|--------------|--------------|
| <b>Voltage</b> | <b>250 V</b> | <b>Power</b> | <b>200mW</b> |
|----------------|--------------|--------------|--------------|

### 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: SOT-323, Plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.0002 ounces, 0.005 grams

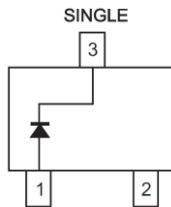
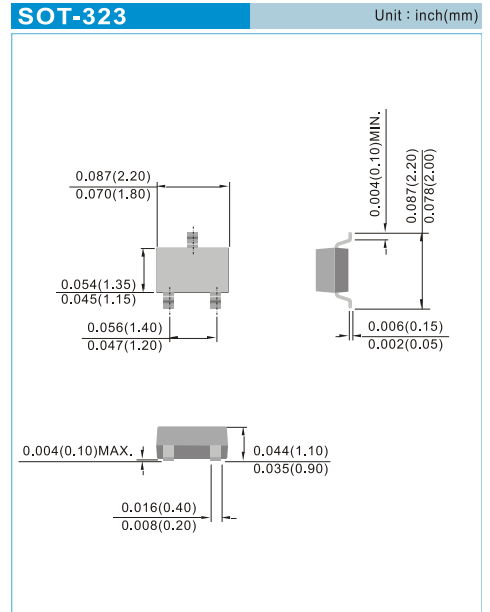


Fig. 14(TOP VIEW)



### Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25° C unless otherwise noted)

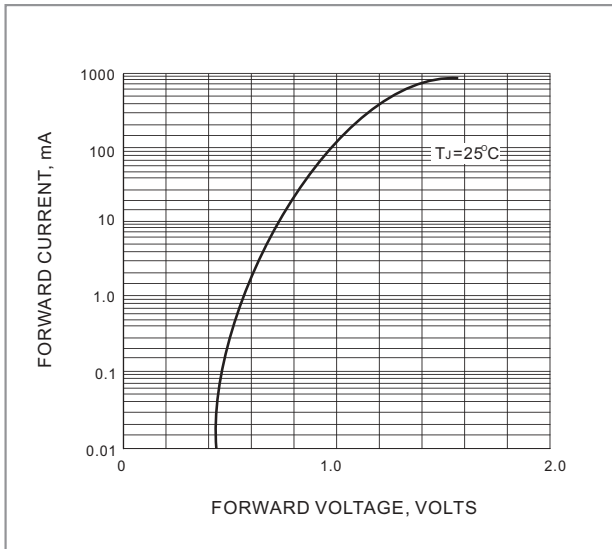
| PARAMETER  | SYMBOL                            | VALUE       | UNIT |
|--|-----------------------------------|-------------|------|
| Marking Code   |                                   | A82         |      |
| Reverse Voltage  | V <sub>R</sub>                    | 200         | V    |
| Peak Reverse Voltage   | V <sub>RM</sub>                   | 250         | V    |
| Rectified Current (Average), Half Wave Rectification with Resistive Load and f <sub>≥</sub> 50Hz | I <sub>O</sub>                    | 200         | mA   |
| Peak Forward Surge Current : 1μs   | I <sub>FSM</sub>                  | 4           | A    |
| Power Dissipation Derate Above 25°C  | P <sub>TOT</sub>                  | 200         | mW   |
| Maximum Forward Voltage at 0.1A  | V <sub>F</sub>                    | 1           | V    |
| Maximum Dc Reverse Current at Rated Dc Blocking Voltage T <sub>J</sub> =25° C                    | I <sub>R</sub>                    | 0.1         | μA   |
| Typical Junction Capacitance (Note 1)  | C <sub>J</sub>                    | 5           | pF   |
| Maximum Reverse Recovery (Note 2)  | T <sub>RR</sub>                   | 50          | ns   |
| Typical Thermal Resistance   | R <sub>θJA</sub>                  | 625         | °C/W |
| Operating Junction and Storage Temperature Range   | T <sub>J</sub> , T <sub>STG</sub> | -55 to +150 | °C   |

Note : 1. C<sub>J</sub> at V<sub>R</sub>=0, f=1MHz

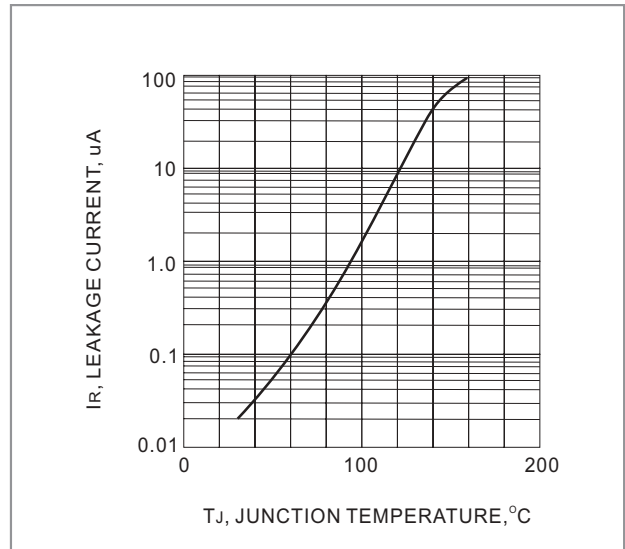
2. From I<sub>F</sub>=10mA to I<sub>R</sub>=1mA, V<sub>R</sub>=6V, R<sub>L</sub>=100Ω



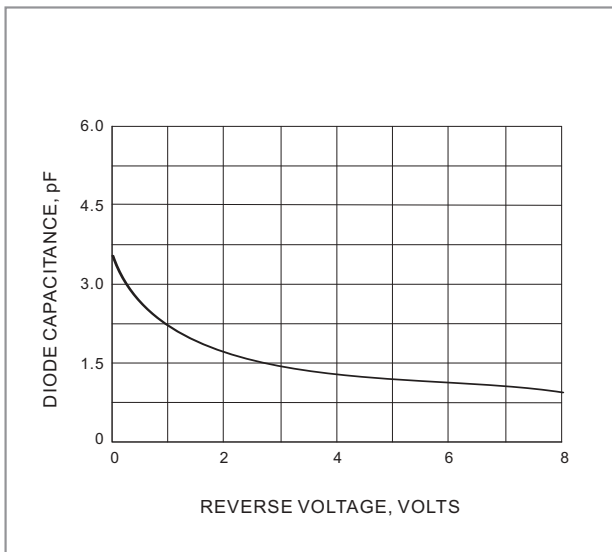
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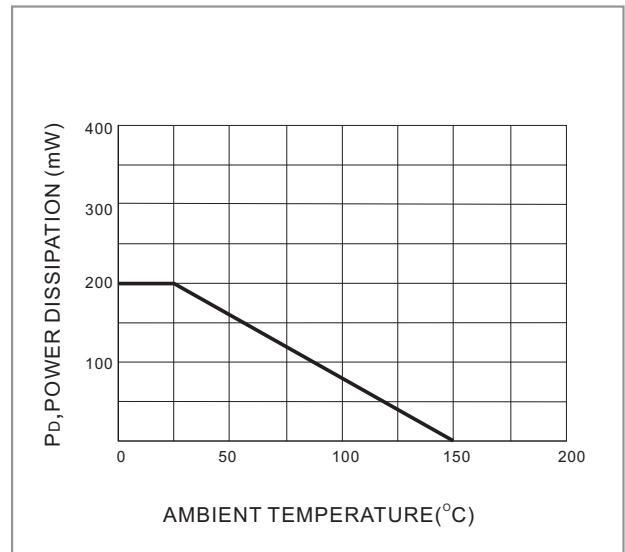
**FIG. 1-TYPICAL FORWARD CHARACTERISTIC**



**Fig.2 LEAKAGE CURRENT vs JUNCTION TEMPERATURE**



**FIG. 3 TYPICAL JUNCTION CAPACITANCE**

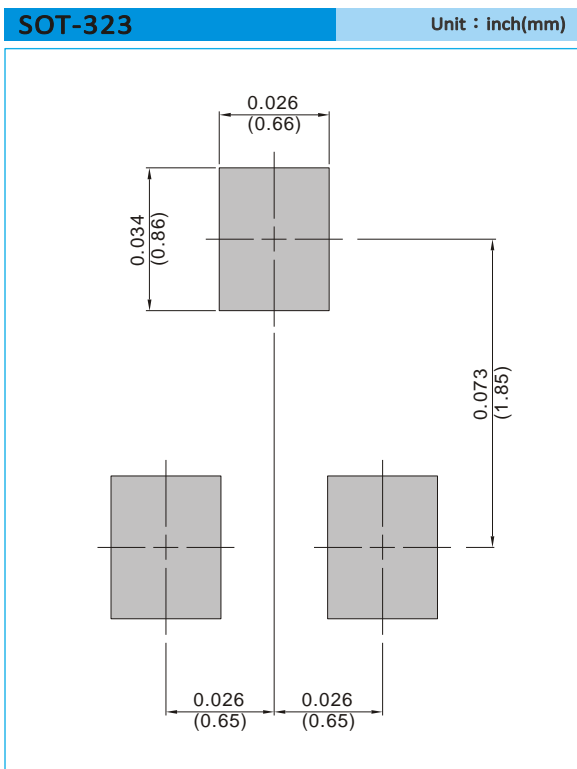


**FIG. 4 POWER DERATING CURVE**



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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



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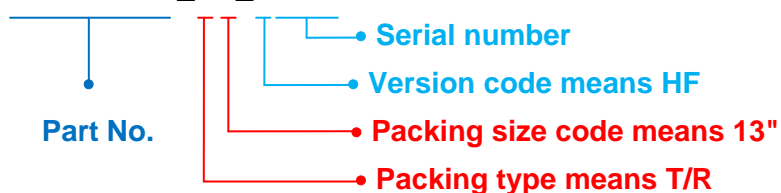
**Part No\_packing code\_Version**

BAS21W-AU\_R1\_000A1

BAS21W-AU\_R2\_000A1

**For example :**

**RB500V-40\_R2\_00001**



| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| 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)        | A                    | N/A                              | 0                    | HF                        | 0                    | serial number                         |
| Tape and Reel (T/R)                  | R                    | 7"                               | 1                    | RoHS                      | 1                    | serial number                         |
| Bulk Packing (B/P)                   | B                    | 13"                              | 2                    |                           |                      |                                       |
| Tube Packing (T/P)                   | T                    | 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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