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[BAS581-02V-V-G-08](#)

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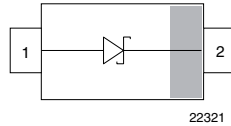


www.vishay.com

BAS581-02V-V-G

Vishay Semiconductors

Small Signal Schottky Diode



FEATURES

- This diode features very low turn-on voltage and fast switching
- Space saving SOD-523 package
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



MECHANICAL DATA

Case: SOD-523

Weight: approx. 1.4 mg

Molding compound flammability rating: UL 94 V-0

Terminals: high temperature soldering guaranteed:
260 °C/10 S at terminals

Packaging codes/options:

08/3K per 7" reel (8 mm tape), 15K/box

| PARTS TABLE | | | | |
|----------------|-------------------|-----------------------|--------------|---------------|
| PART | ORDERING CODE | INTERNAL CONSTRUCTION | TYPE MARKING | REMARKS |
| BAS581-02V-V-G | BAS581-02V-V-G-08 | Single diode | .Z | Tape and reel |

| ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified) | | | | |
|---|----------------|------------------|-------|------|
| PARAMETER | TEST CONDITION | SYMBOL | VALUE | UNIT |
| Repetitive peak reserve voltage = working peak reserve voltage | | V _{RRM} | 40 | V |
| Forward continuous current | | I _F | 30 | mA |
| Surge forward current | | I _{FSM} | 200 | mA |

| THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified) | | | | |
|--|----------------|-------------------|---------------|------|
| PARAMETER | TEST CONDITION | SYMBOL | VALUE | UNIT |
| Thermal resistance junction to ambient air | | R _{thJA} | 680 | K/W |
| Junction temperature | | T _j | 125 | °C |
| Storage temperature range | | T _{stg} | - 65 to + 150 | °C |

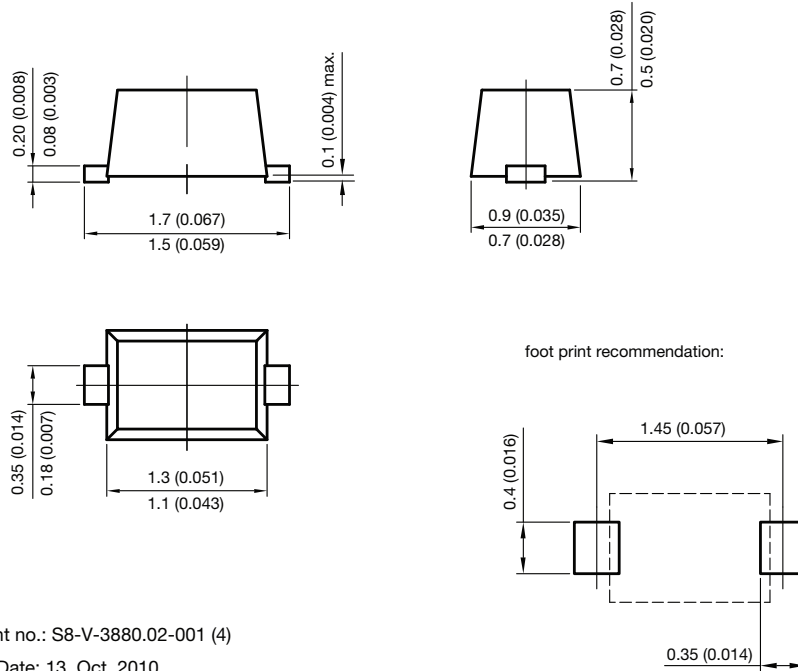
| ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified) | | | | | | |
|---|---------------------------------|-------------------|------|------|------|------|
| PARAMETER | TEST CONDITION | SYMBOL | MIN. | TYP. | MAX. | UNIT |
| Reverse breakdown voltage | I _R = 100 μA | V _(BR) | 40 | | | V |
| Leakage current | V _R = 30 V | I _R | | | 0.5 | μA |
| Forward voltage | I _F = 1 mA | V _F | | | 370 | mV |
| Diode capacitance | V _R = 1 V, f = 1 MHz | C _D | | | 2 | pF |



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PACKAGE DIMENSIONS in millimeters (inches): **SOD-523**



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