

#### Features

Low current rectifier schottky diode. Low voltage, low inductance. For power supply.



SOD-323

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### Package Marking and Ordering Information

| Product ID    | Pack    | Marking | Qty(PCS) |
|---------------|---------|---------|----------|
| HRB551V30TE17 | SOD-323 | D       | 3000     |

## Maxmim Ratings (Ta=25°C unless otherwise noted)

|                  | •                                    |             |        |
|------------------|--------------------------------------|-------------|--------|
| Symbol           | Parameter                            | Limit       | Unit   |
| V <sub>RM</sub>  | Peak Reverse Voltage                 | 30          | V      |
| V <sub>R</sub>   | DC Blocking Voltage 30               |             | V      |
| lo               | Mean rectifying current 500          |             | mA     |
| IFSM             | Non-repetitive Peak Forward Surge    | 2.0         | ۸      |
|                  | Current@8.3mS                        | 2.0         | A      |
| Pd               | Power Dissipation                    | 200         | mW     |
| Roja             | Thermal Resistance From Junction To  | 500         | 00/11/ |
|                  | Ambient                              | 500         | °C/W   |
| TJ               | Operation Junction Temperature Range | -40~+125 °С |        |
| T <sub>STG</sub> | Storage Temperature Range            | -55~+150    | °C     |

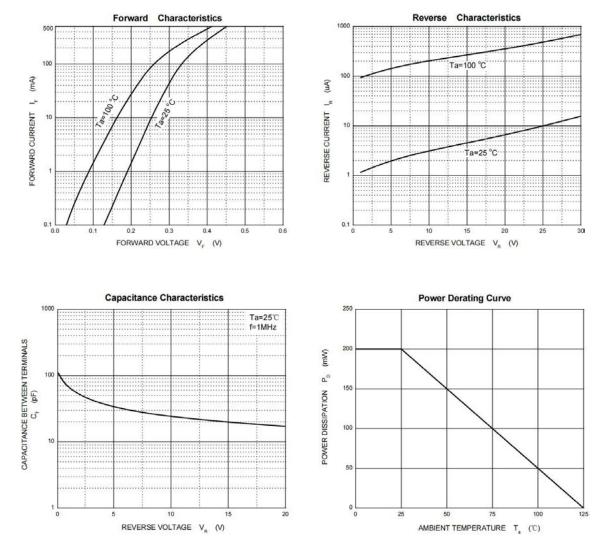
### **Electrical Charcteristics (Ta=25°C unless otherwise noted)**

| Symbol             | Parameter                          | Test conditions       | Min | Тур | Max  | Unit |
|--------------------|------------------------------------|-----------------------|-----|-----|------|------|
| I <sub>R</sub>     | Reverse voltage leakage<br>current | V <sub>R</sub> =20V   |     |     | 100  | μA   |
| VF(1)              | Forward voltage(1)                 | I⊧=100mA              |     |     | 0.36 | V    |
| V <sub>F</sub> (2) | Forward voltage(2)                 | I <sub>F</sub> =500mA |     |     | 0.47 | V    |



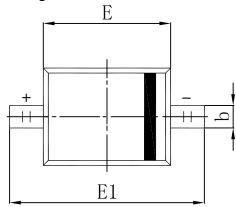
# HRB551V30TE17 SCHOTTKY BARRIER DIODE

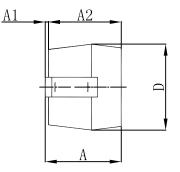
### **Typical Characteristics**

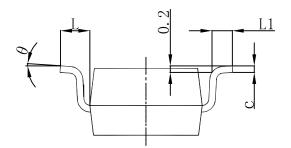




## SOD-323 Package Outline Dimensions







| Symbol | Dimensions In Millimeters |       | Dimensions In Inches |       |  |
|--------|---------------------------|-------|----------------------|-------|--|
|        | Min                       | Max   | Min                  | Max   |  |
| A      |                           | 1.100 |                      | 0.043 |  |
| A1     | 0.000                     | 0.100 | 0.000                | 0.004 |  |
| A2     | 0.800                     | 1.000 | 0.031                | 0.039 |  |
| b      | 0.250                     | 0.350 | 0.010                | 0.014 |  |
| С      | 0.080                     | 0.150 | 0.003                | 0.006 |  |
| D      | 1.200                     | 1.400 | 0.047                | 0.055 |  |
| E      | 1.600                     | 1.800 | 0.063                | 0.071 |  |
| E1     | 2.500                     | 2.750 | 0.098                | 0.108 |  |
| L      | 0.475 REF                 |       | 0.019 REF            |       |  |
| L1     | 0.250                     | 0.400 | 0.010                | 0.016 |  |
| θ      | 0°                        | 8°    | 0°                   | 8°    |  |



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