



# RB551V-30TA SERIES

## SURFACE MOUNT SCHOTTKY BARRIER

**VOLTAGE** 30 Volt    **CURRENT** 0.2 Amper

### FEATURES

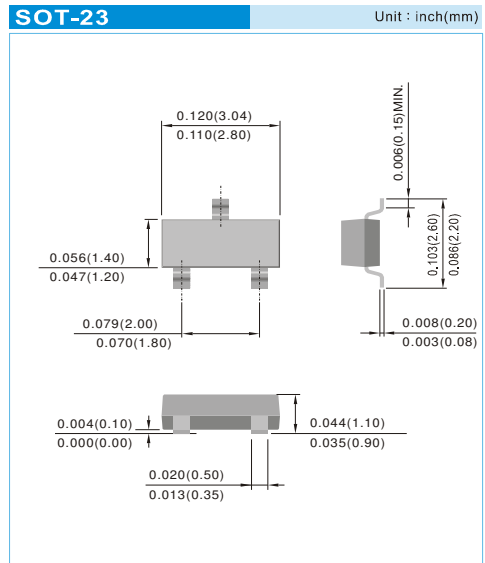
- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

Case: SOT-23, Plastic

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

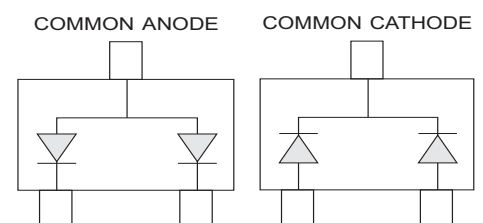
Approx. Weight: 0.0003 ounces, 0.0084 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

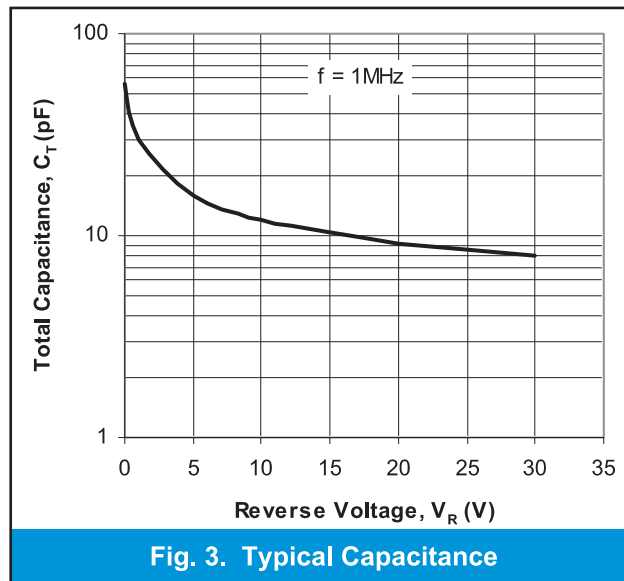
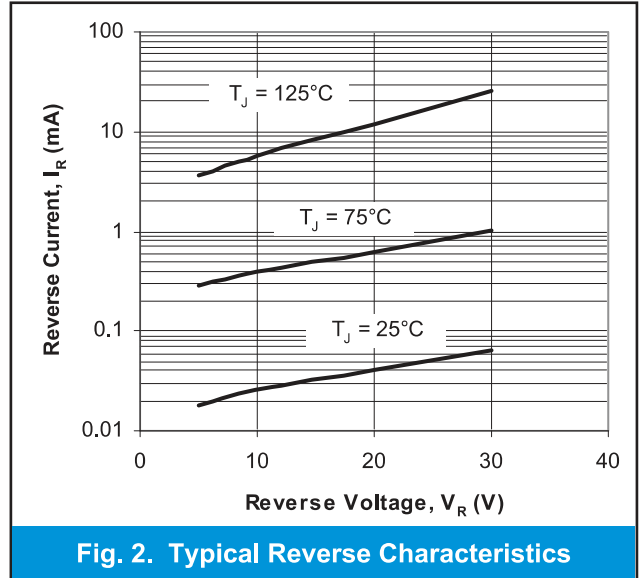
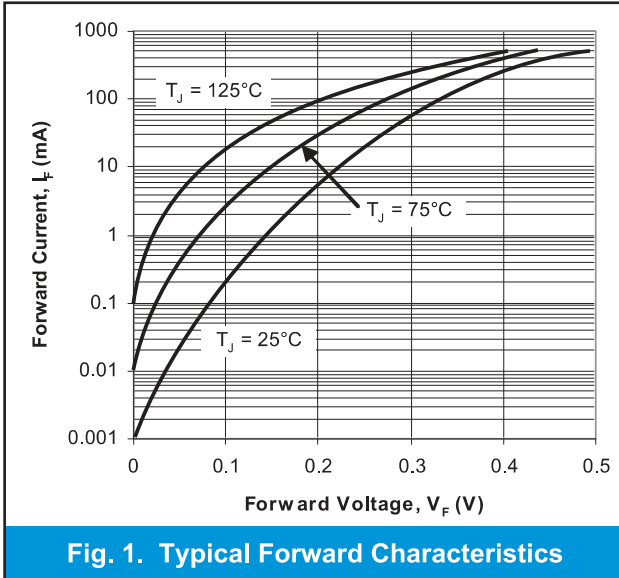
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

| Parameter  | Symbol                            | RB551V-30TA  | RB551V-30TC    | Units |
|--|-----------------------------------|--------------|----------------|-------|
| Marking code   |                                   | 550          | 551            |       |
| Peak Repetitive Reverse Voltage  | V <sub>RRM</sub>                  | 30           |                | V     |
| Maximum Average Forward Current at T <sub>A</sub> =75°C                                  | I <sub>O</sub>                    | 0.2          |                | A     |
| Peak Forward Surge Current, 1.0s (JEDEC method)  | I <sub>FSM</sub>                  | 0.6          |                | A     |
| Maximum Instantaneous Forward Voltage @ I <sub>F</sub> =100mA<br>@ I <sub>F</sub> =500mA | V <sub>F</sub>                    | 0.31<br>0.48 |                | V     |
| Maximum DC Reverse Current at Rated DC Blocking Voltage@VR=10V<br>@VR=20V                | I <sub>R</sub>                    | 50<br>100    |                | µA    |
| Junction Capacitance : at VR=0V  | C <sub>J</sub>                    | 80           |                | pF    |
| Thermal Resistance, Junction to Ambient  | RθJA                              | 833          |                | °C/W  |
| Operating Junction and Storage Temperature Range   | T <sub>J</sub> , T <sub>STG</sub> | -55 to +125  |                | °C    |
| Circuit Figure   |                                   | Common Anode | Common Cathode |       |





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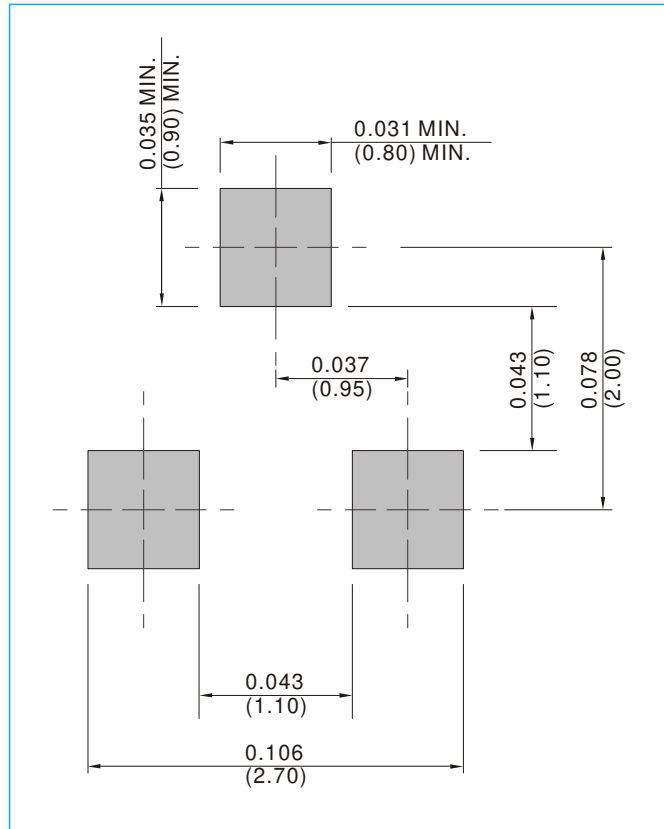


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## MOUNTING PAD LAYOUT

**SOT-23**

Unit : inch(mm)



## ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel



# RB551V-30TA SERIES

## Part No\_packing code\_Version

RB551V-30TA\_R1\_00001

RB551V-30TA\_R2\_00001

For example :

**RB500V-40** **R2** **00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

| 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)        | <b>A</b>             | N/A                              | <b>0</b>             | <b>HF</b>                 | <b>0</b>             | serial number                         |
| Tape and Reel (T/R)                  | <b>R</b>             | 7"                               | <b>1</b>             | <b>RoHS</b>               | <b>1</b>             | serial number                         |
| Bulk Packing (B/P)                   | <b>B</b>             | 13"                              | <b>2</b>             |                           |                      |                                       |
| Tube Packing (T/P)                   | <b>T</b>             | 26mm                             | <b>X</b>             |                           |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | <b>S</b>             | 52mm                             | <b>Y</b>             |                           |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | <b>L</b>             | PANASERT T/B CATHODE UP (PBCU)   | <b>U</b>             |                           |                      |                                       |
| FORMING                              | <b>F</b>             | PANASERT T/B CATHODE DOWN (PBCD) | <b>D</b>             |                           |                      |                                       |



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