



RB751V-40X

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 40 Volts **POWER** 30 mA

SOD-323

Unit : inch(mm)

FEATURES

- Extremely Fast Switching Speed
- Surface mount package ideally suited for automatic insertion
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

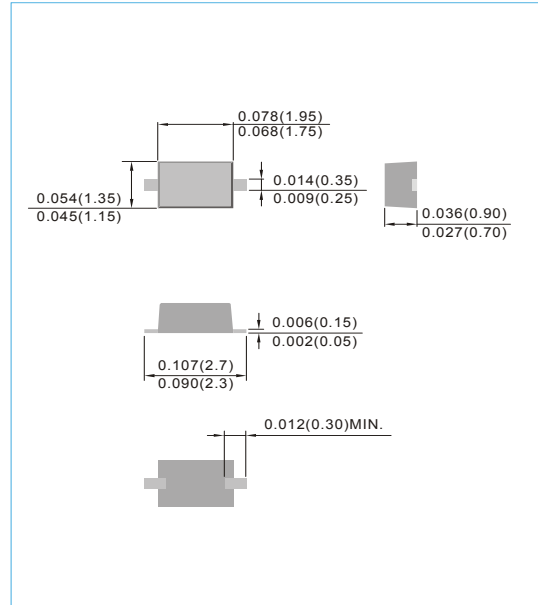
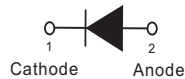
Case : SOD-323, Plastic

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

Approx Weight : 0.0041 grams, 0.00014 ounces

Polarity : Color band cathode

Marking : X60



ABSOLUTE RATINGS

| Parameter | Symbol | Value | Units |
|--|-----------------|-------------|---------------|
| Maximum Peak Reverse Voltage | V_{RRM} | 40 | V |
| Reverse DC Voltage | V_R | 30 | V |
| Average Forward Current | $I_{F(AV)}$ | 30 | mA |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 200 | mA |
| Typical Junction Capacitance ($V_R=1V$, $f=1MHz$) | C_J | 2.5 | pF |
| Thermal Resistance, Junction to Ambient (Note 1) | $R_{\theta JA}$ | 650 | $^{\circ}C/W$ |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | $^{\circ}C$ |

Note : 1. Mounted on an FR4 PCB, single-sided copper, mini pad.



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ELECTRICAL CHARACTERISTICS ($T_J = 25^\circ\text{C}$ unless otherwise noted)

| Parameter | Symbol | Test Condition | Min. | Typ. | Max. | Units |
|-------------------------|--------|--|------|------|------|---------------|
| Reverse Leakage Current | I_R | $V_R=30\text{V}$ | - | - | 0.5 | μA |
| Forward Voltage | V_F | $I_F=1\text{mA}$ $T_J=25^\circ\text{C}$ | - | 0.33 | 0.37 | V |
| | | $I_F=1\text{mA}$ $T_J=125^\circ\text{C}$ | - | 0.19 | - | |

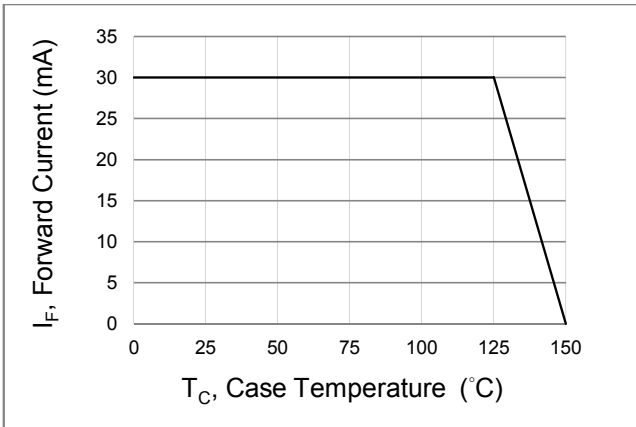


Fig.1 Forward Current Derating Curve

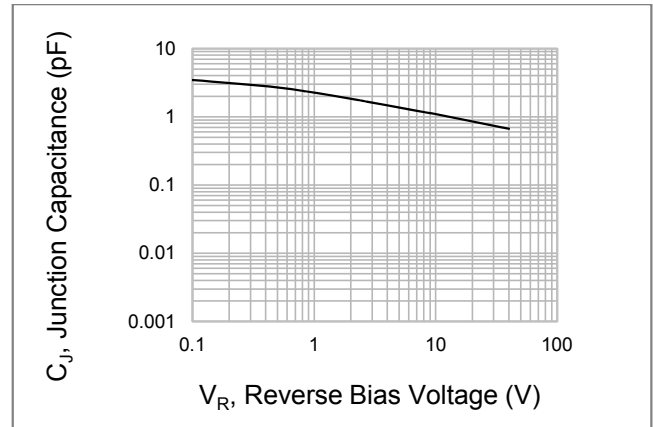


Fig.2 Typical Junction Capacitance

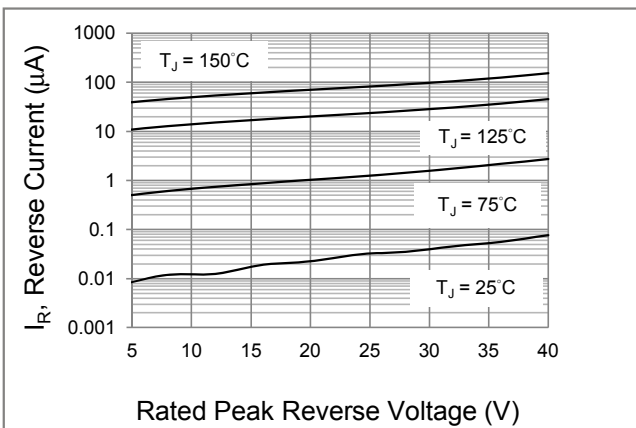


Fig.3 Typical Reverse Characteristics

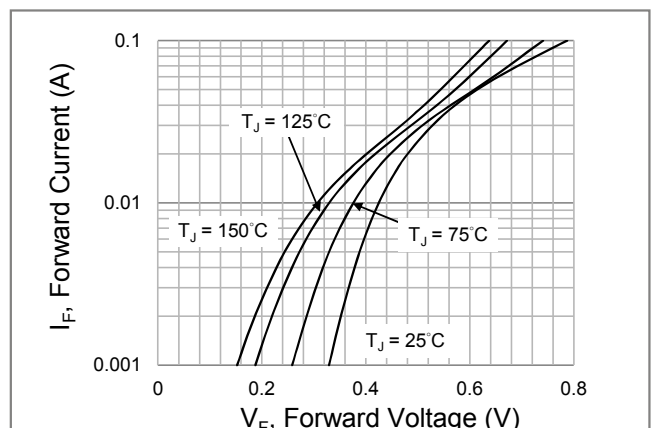


Fig.4 Typical Forward Characteristics

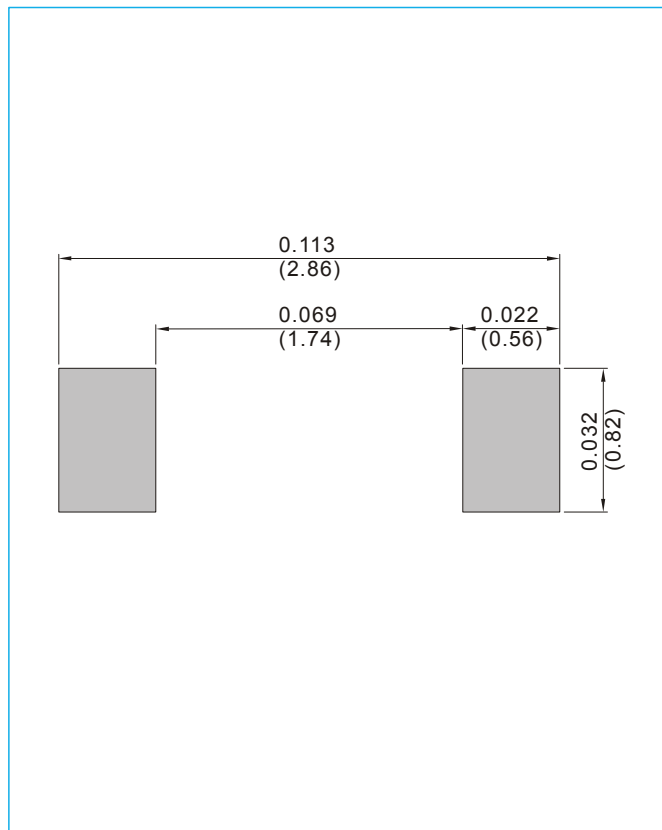


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MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 12K per 13" plastic Reel
T/R - 5K per 7" plastic Reel



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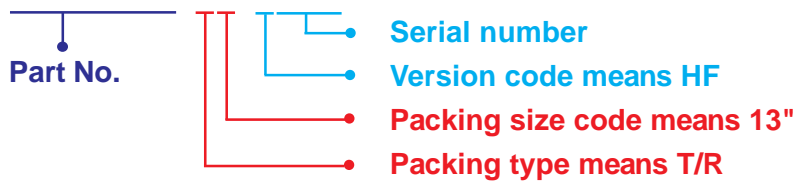
Part No_packing code_Version

RB751V-40X_R1_00001

RB751V-40X_R2_00001

For example :

RB500V-40_R2_00001



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th 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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