

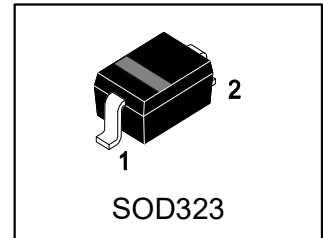
RB751V-40

S-RB751V-40

Schottky Barrier Diode

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- Low reverse current and low voltage.
- High reliability



2. APPLICATIONS

- Low-power rectification



3. DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|-----------|---------|----------------|
| RB751V-40 | 5E | 3000/Tape&Reel |

4. MAXIMUM RATINGS(Ta = 25°C)

| Parameter | Symbol | Limits | Unit |
|----------------------------|--------|--------|------|
| Peak Reverse Voltage | VRM | 40 | V |
| DC Reverse Voltage | VR | 30 | V |
| Mean Rectifying Current | IO | 30 | mA |
| Peak Forward Surge Current | IFSM | 200 | mA |

5. THERMAL CHARACTERISTICS

| Parameter | Symbol | Limits | Unit |
|---|----------|-------------|-------------|
| Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C | PD | 200 1.57 | mW mW/°C |
| Thermal Resistance, Junction-to-Ambient(Note 1) | RθJA | 635 | °C/W |
| Junction and Storage temperature | TJ, Tstg | -40 ~ +125 | °C |

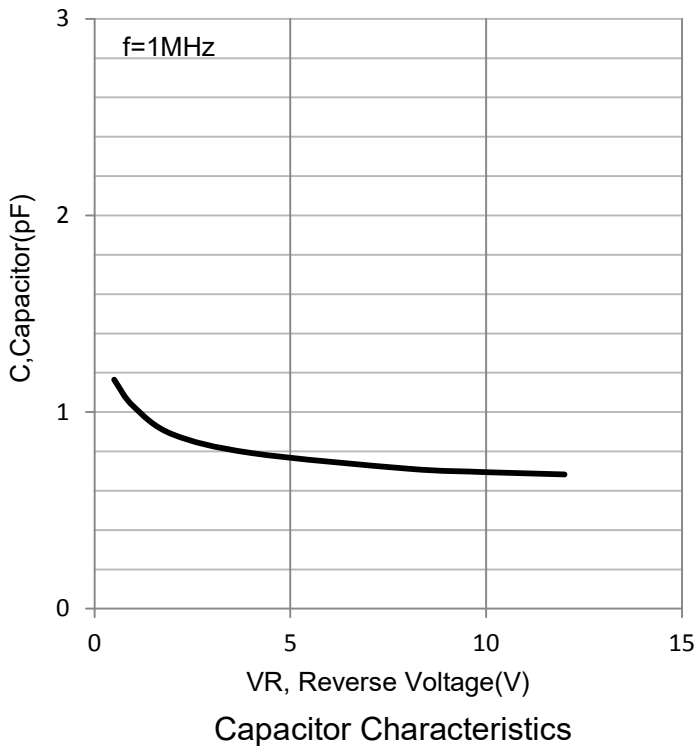
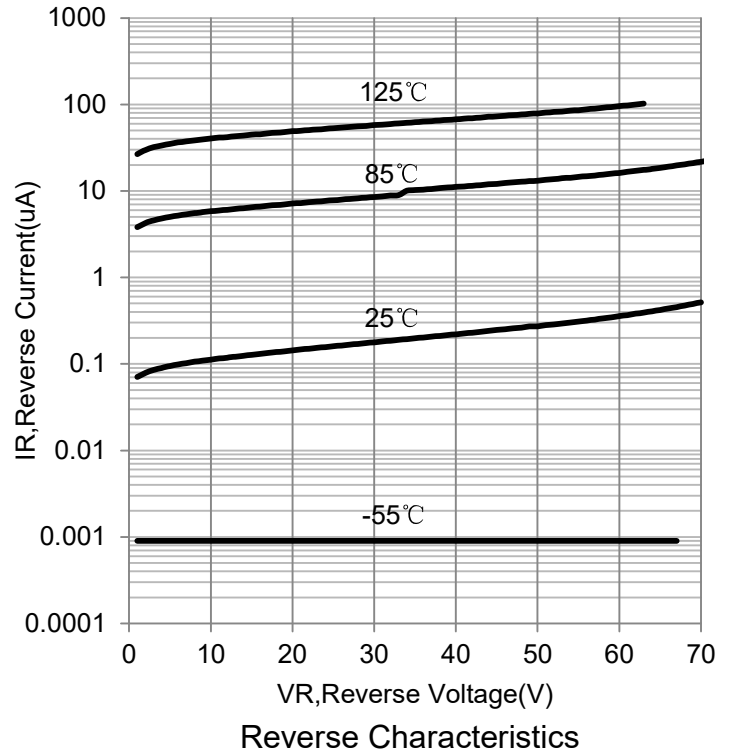
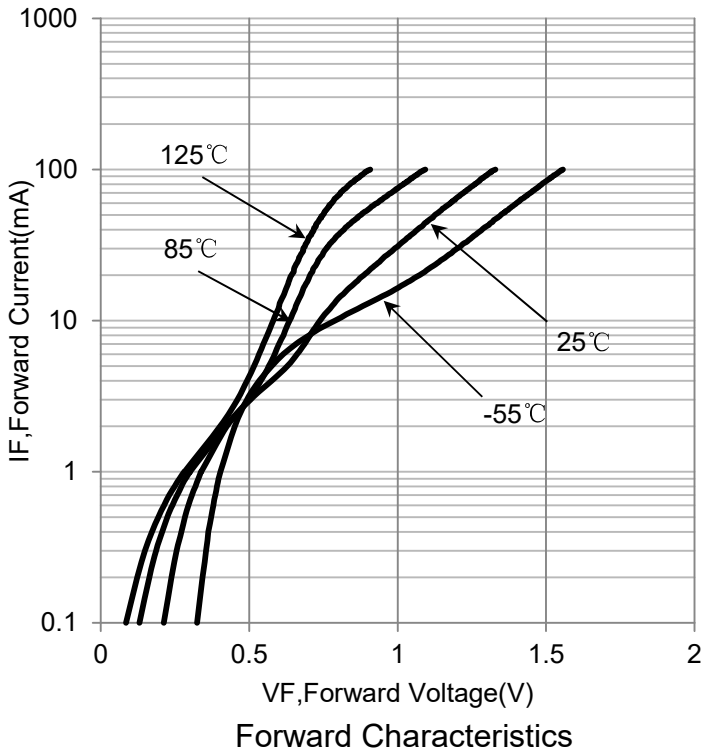
1. FR-5 = 1.0×0.75×0.062 in.

6. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

| Characteristic | Symbol | Min. | Typ. | Max. | Unit |
|---|--------|------|------|------|------|
| Forward voltage(IF=1mA) | VF | - | - | 0.37 | V |
| Reverse Current(VR=30V) | IR | - | - | 0.5 | μA |
| Diode Capacitance(VR = 1V, f = 1.0 MHz) | CT | - | 2 | - | pF |



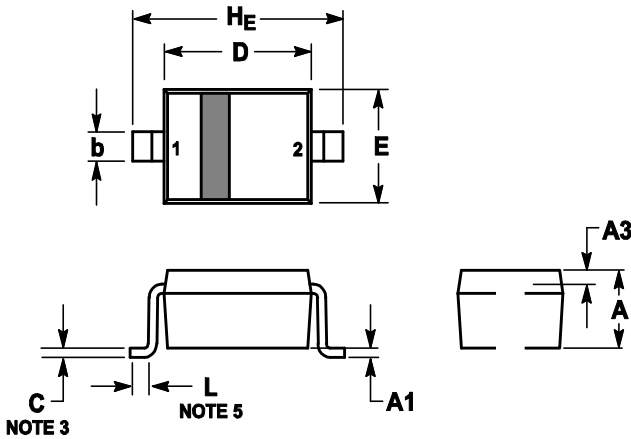
7. ELECTRICAL CHARACTERISTICS CURVES



8. OUTLINE AND DIMENSIONS

Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.



| DIM | MILLIMETERS | | | INCHES | | |
|-------|-------------|------|-------|----------|-------|-------|
| | MIN | NOM | MAX | MIN | NOM | MAX |
| A | 0.8 | 0.9 | 1 | 0.031 | 0.035 | 0.04 |
| A1 | 0 | 0.05 | 0.1 | 0 | 0.002 | 0.004 |
| A3 | 0.15REF | | | 0.006REF | | |
| b | 0.25 | 0.32 | 0.4 | 0.01 | 0.012 | 0.016 |
| C | 0.089 | 0.12 | 0.177 | 0.003 | 0.005 | 0.007 |
| D | 1.6 | 1.7 | 1.8 | 0.062 | 0.066 | 0.07 |
| E | 1.15 | 1.25 | 1.35 | 0.045 | 0.049 | 0.053 |
| L | 0.08 | | | 0.003 | | |
| H_E | 2.3 | 2.5 | 2.7 | 0.09 | 0.098 | 0.105 |

9 SOLDERING FOOTPRINT
