



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

## SOD-323 Plastic-Encapsulate Diode

### **RB751V-40** Schottky Diodes

#### FEATURES

- High current rectifier Schottky diode
- Low voltage, low inductance
- For power supply

MAKING: 5



#### Maximum Ratings and Electrical Characteristics, Single Diode @T<sub>A</sub>=25°C

| Parameter                  | Symbol           | Limits   | Unit |
|----------------------------|------------------|----------|------|
| Peak reverse voltage       | V <sub>RM</sub>  | 40       | V    |
| DC reverse voltage         | V <sub>R</sub>   | 30       | V    |
| Mean rectifying current    | I <sub>O</sub>   | 0.03     | A    |
| Peak forward surge current | I <sub>FSM</sub> | 0.2      | A    |
| Junction temperature       | T <sub>j</sub>   | 125      | °C   |
| Storage temperature        | T <sub>stg</sub> | -40~+125 | °C   |

#### Electrical Ratings @T<sub>A</sub>=25°C

| Parameter                     | Symbol         | Min. | Typ. | Max. | Unit | Conditions                 |
|-------------------------------|----------------|------|------|------|------|----------------------------|
| Forward voltage               | V <sub>F</sub> |      |      | 0.37 | V    | I <sub>F</sub> =1mA        |
| Reverse current               | I <sub>R</sub> |      |      | 0.5  | μA   | V <sub>R</sub> =30V        |
| Capacitance between terminals | C <sub>T</sub> |      | 2    |      | pF   | V <sub>R</sub> =1V, f=1MHZ |

# Typical Characteristics

# RB751V-40

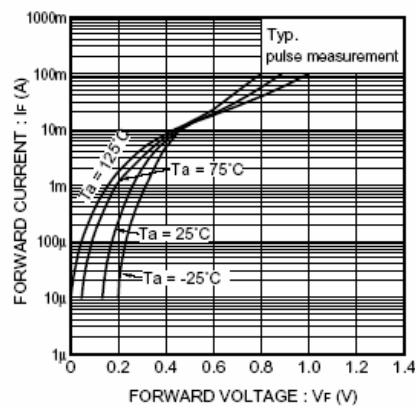


Fig. 1 Forward characteristics

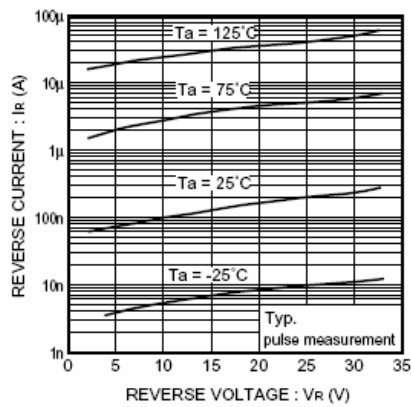


Fig. 2 Reverse characteristics

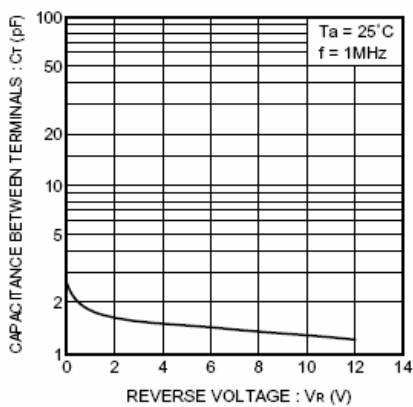


Fig. 3 Capacitance between terminals characteristics