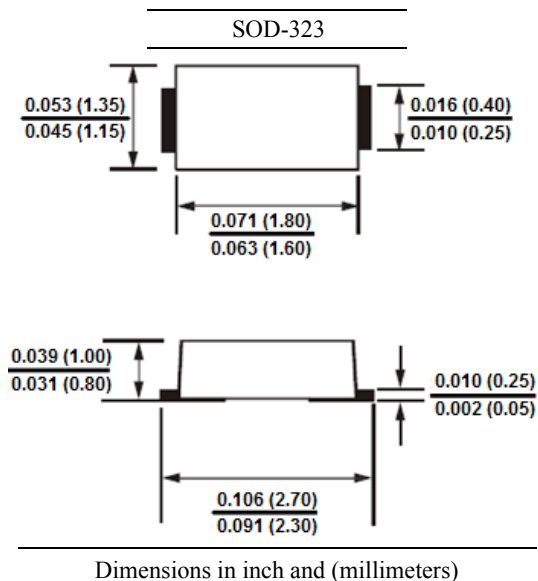


# RB500V-40

## SCHOTTKY DIODES

### FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex. RB500V-40H



### Maximum Ratings@ $T_A = 25\text{ }^\circ\text{C}$

| Parameter                                | Symbol      | Value       | Unit             |
|--|-------------|-------------|------------------|
| Repetitive Peak Reverse Voltage          | $V_{RRM}$   | 45          | V                |
| Reverser Voltage (DC)                    | $V_R$       | 40          | V                |
| Average Forward Current                  | $I_{F(AV)}$ | 100         | mA               |
| Peak Forward Surge Current (60Hz/1cycle) | $I_{FSM}$   | 1           | A                |
| Operating Junction Temperature           | $T_J$       | +125        | $^\circ\text{C}$ |
| Storage Temperature Range                | $T_{STG}$   | -40 to +125 | $^\circ\text{C}$ |

### Electrical Characteristics@ $T_A = 25\text{ }^\circ\text{C}$

| Parameter               | Symbol | Min.     | Max. | Unit          | Conditions                               |
|-------------------------|--------|----------|------|---------------|--|
| Reverse Leakage Current | $I_R$  | --       | 1.0  | $\mu\text{A}$ | $V_R = 10\text{V}$                       |
| Forward Voltage         | $V_F$  | --       | 0.45 | V             | $I_F = 10\text{mA}$                      |
| Capacitance             | $C_t$  | Typ. 6.0 |      | pF            | $V_R = 10\text{V}$ , $f = 1.0\text{MHz}$ |

# RB500V-40

## SCHOTTKY DIODES



### Typical Characteristics

