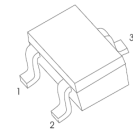


# SURFACE MOUNT SCHOTTKY BARRIER DIODE

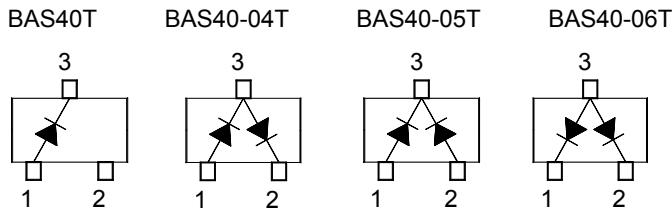
## Features

- Low forward voltage
- Fast switching

### SOT-523



1. BASE
2. EMITTER
3. COLLECTOR



BAS40T Marking Code: **43**  
 BAS40-04T Marking Code: **44**  
 BAS40-05T Marking Code: **45**  
 BAS40-06T Marking Code: **46**

## Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

| Parameter   | Symbol    | Value         | Unit             |
|---|-----------|---------------|------------------|
| Repetitive Peak Reverse Voltage                     | $V_{RRM}$ | 40            | V                |
| DC Blocking Voltage                                 | $V_R$     | 40            | V                |
| Forward Continuous Current                          | $I_F$     | 200           | mA               |
| Peak Forward Surge Current (at $t_p < 1\text{ s}$ ) | $I_{FSM}$ | 600           | mA               |
| Junction Temperature                                | $T_J$     | 150           | $^\circ\text{C}$ |
| Storage Temperature Range                           | $T_S$     | - 55 to + 150 | $^\circ\text{C}$ |

## Characteristics at $T_a = 25\text{ }^\circ\text{C}$

| Parameter  | Symbol      | Min. | Max. | Unit |
|--|-------------|------|------|------|
| Forward Voltage<br>at $I_F = 1\text{ mA}$  | $V_F$       | -    | 380  | mV   |
| at $I_F = 40\text{ mA}$  | $V_F$       | -    | 1000 | mV   |
| Reverse Current<br>at $V_R = 30\text{ V}$  | $I_R$       | -    | 200  | nA   |
| Reverse Breakdown Voltage<br>at $I_R = 10\text{ }\mu\text{A}$  | $V_{(BR)R}$ | 40   | -    | V    |
| Reverse Recovery Time<br>from $I_F = 10\text{ mA}$ through $I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ | $t_{rr}$    | -    | 5    | ns   |
| Total Capacitance<br>at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$  | $C_T$       | -    | 5    | pF   |

## **PACKAGE OUTLINE**

**Plastic surface mounted package; 2 leads**

**SOD-523**

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