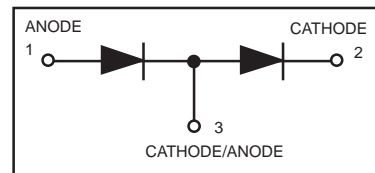
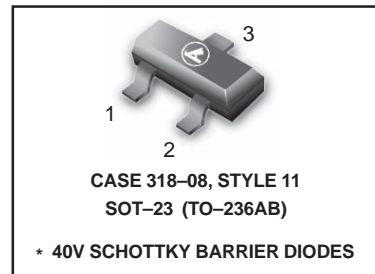


# Dual Series Schottky Barrier Diode

These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping. Extremely low forward voltage reduces conduction loss. Miniature surface mount package is excellent for hand held and portable applications where space is limited.

- Extremely Fast Switching Speed
- Low Forward Voltage — 0.50 Volts (Typ)  
@  $I_F = 10 \text{ mAdc}$

## BAS40-04LT1

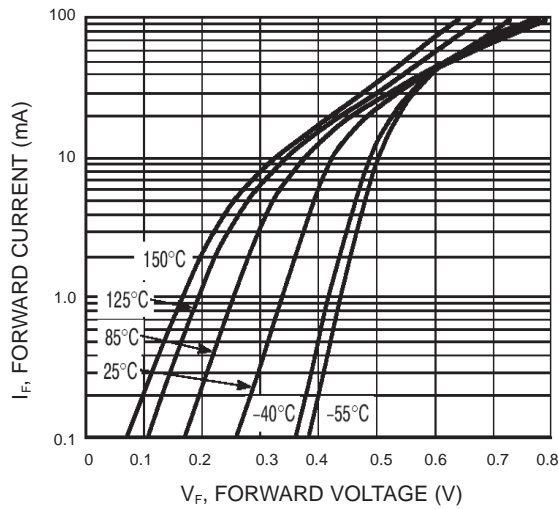
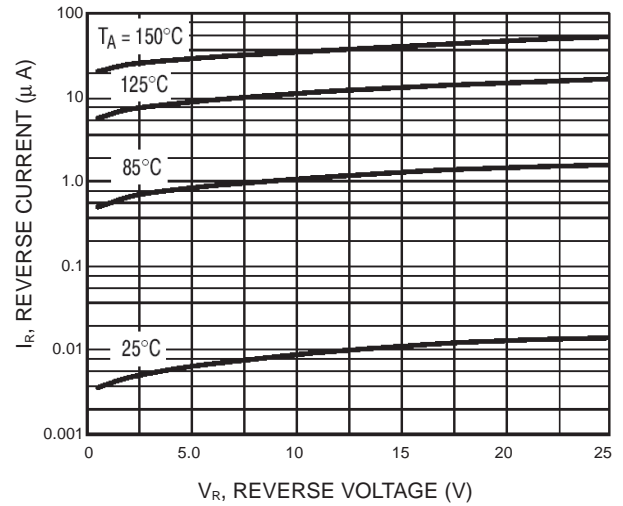
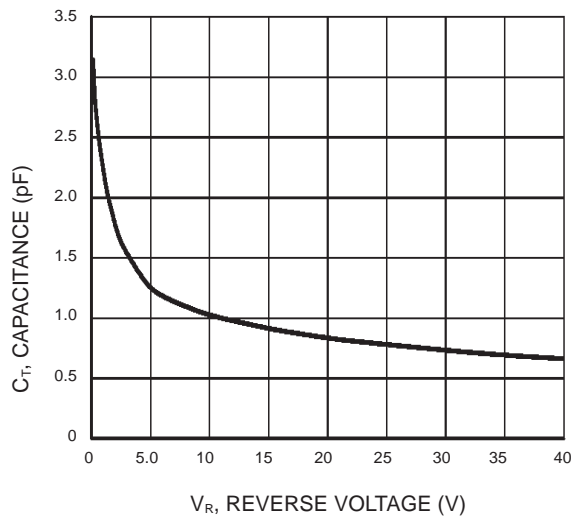


### MAXIMUM RATINGS ( $T_J = 150^\circ\text{C}$ unless otherwise noted)

| Rating  | Symbol         | Value       | Unit                 |
|---|----------------|-------------|----------------------|
| Reverse Voltage   | $V_R$          | 40          | Volts                |
| Forward Power Dissipation                                     | $P_F$          | 225         | mW                   |
| @ $T_A = 25^\circ\text{C}$<br>Derate above $25^\circ\text{C}$ |                | 1.8         | mW/ $^\circ\text{C}$ |
| Operating Junction and Storage<br>Temperature Range           | $T_J, T_{stg}$ | -55 to +150 | $^\circ\text{C}$     |

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

| Characteristic   | Symbol      | Min | Max | Unit            |
|--|-------------|-----|-----|-----------------|
| Reverse Breakdown Voltage ( $I_R = 10 \mu\text{A}$ )             | $V_{(BR)R}$ | 40  | —   | Volts           |
| Total Capacitance ( $V_R = 1.0 \text{ V}, f = 1.0 \text{ MHz}$ ) | $C_T$       | —   | 5.0 | pF              |
| Reverse Leakage ( $V_R = 25 \text{ V}$ )                         | $I_R$       | —   | 1.0 | $\mu\text{Adc}$ |
| Forward Voltage ( $I_F = 0.1 \text{ mAdc}$ )                     | $V_F$       | —   | 380 | mVdc            |
| Forward Voltage ( $I_F = 30 \text{ mAdc}$ )                      | $V_F$       | —   | 500 | mVdc            |
| Forward Voltage ( $I_F = 100 \text{ mAdc}$ )                     | $V_F$       | —   | 1.0 | Vdc             |

**BAS40-04LT1**

**Figure 1. Typical Forward Current**

**Figure 2. Reverse Current Versus Reverse Voltage**

**Figure 3. Typical Current**

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[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.