

SCHOTTKY BARRIER DIODE

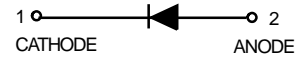
Features

- (1) Small surface mounting type SC-79/SOD-523
- (2) Low reverse current and low forward voltage.
- (3) High reliability

Construction

Silicon epitaxial planar

We declare that the material of product compliance with RoHS requirements.



MAXIMUM RATINGS ($T_A = 25\text{ C}$)

| Parameter | Symbol | Limits | Unit |
|----------------------------|-----------|----------|------|
| Peak reverse voltage | V_{RM} | 40 | V |
| DC reverse voltage | V_R | 30 | V |
| Mean rectifying current | I_O | 30 | mA |
| Peak forward surge current | I_{FSM} | 200 | mA |
| Junction temperature | T_j | 125 | C |
| Storage temperature | T_{stg} | -40~+125 | C |

DEVICE MARKING

| |
|--------------|
| FDR751T1G= 5 |
|--------------|

ELECTRICAL CHARACTERISTICS($T_A = 25\text{ C}$)

| Parameter | Symbol | Min. | Typ | Max. | Unit | Conditions |
|-------------------------------|--------|------|-----|------|---------------|------------------------------------|
| Forward voltage | V_F | - | - | 0.37 | V | $I_F = 1\text{mA}$ |
| Reverse current | I_R | - | - | 0.5 | μA | $V_R = 30\text{V}$ |
| Capacitance between terminals | C_T | - | 2.0 | - | pF | $V_R = 1\text{V}, f = 1\text{MHz}$ |

Ordering Information

| Device | Marking | Shipping |
|------------|---------|-----------------|
| FDR751ET1G | 5 | 3000/Tape&Reel |
| FDR751ET3G | 5 | 10000/Tape&Reel |

Electrical characteristic curves ($T_A = 25^\circ\text{C}$)

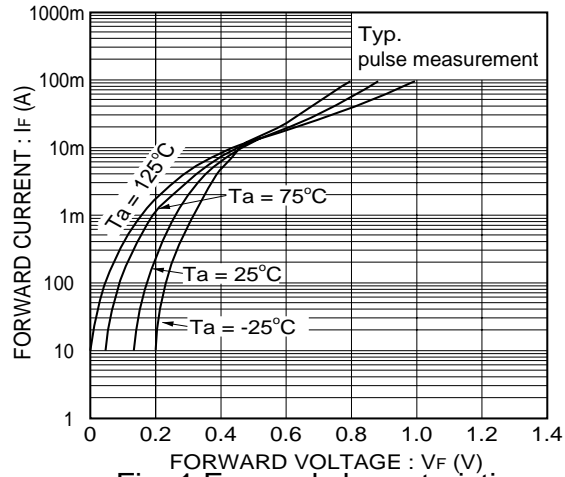


Fig. 1 Forward characteristics

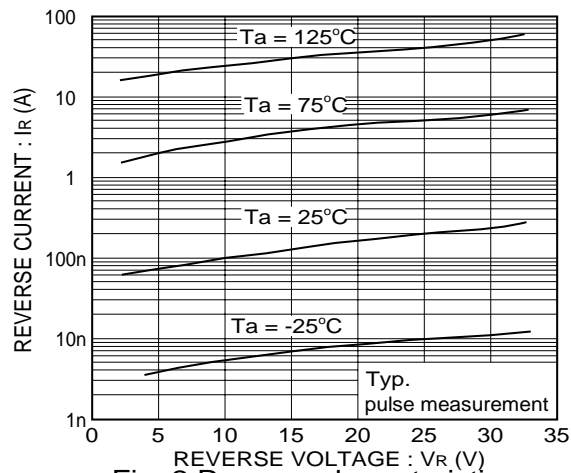


Fig. 2 Reverse characteristics

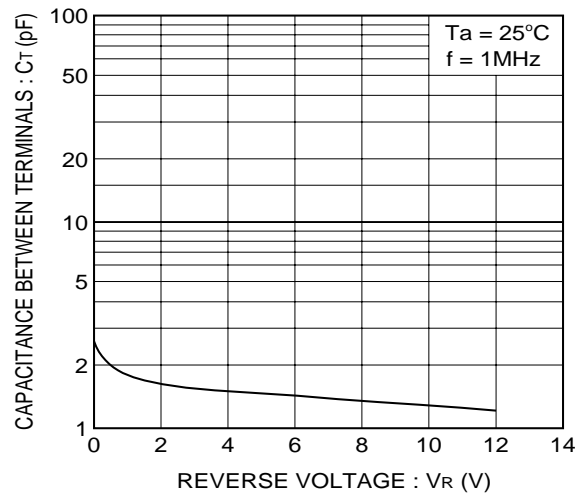
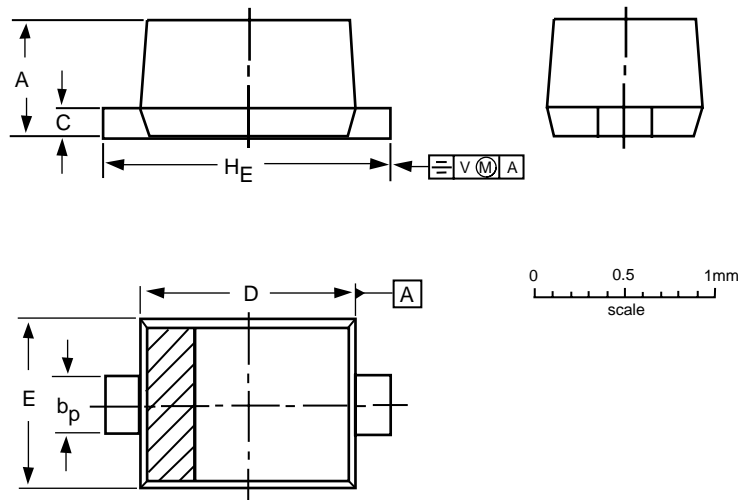


Fig. 3 Capacitance between terminals characteristics

SC-79/SOD-523



DIMENSIONS (mm are the original dimensions)

| UNIT | A | b_p | c | D | E | H_E | V |
|------|-----|-------|-----|-----|-----|-------|------|
| mm | 0.7 | 0.35 | 0.2 | 1.3 | 0.9 | 1.7 | 0.15 |
| | 0.5 | 0.25 | 0.1 | 1.1 | 0.7 | 1.5 | |