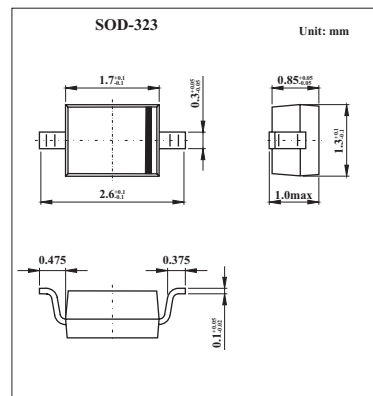


MA2ZV01

■ Features

- Good linearity and large capacitance-ratio in C_D - V_R relation
- Small series resistance r_D
- S-mini type package, allowing downsizing of equipment and automatic insertion through the taping package



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Value | Unit |
|----------------------|-----------|-------------|------------------|
| Reverse voltage (DC) | V_R | 6 | V |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|----------------------|-----------------------|---|-----|-----|-----|----------|
| Reverse current (DC) | I_R | $V_R = 6\text{ V}$ | | | 10 | nA |
| Diode capacitance | $C_{D(1V)}$ | $f = 1\text{ MHz}; V_R = 1\text{ V}$ | 15 | | 17 | pF |
| | $C_{D(3V)}$ | $f = 1\text{ MHz}; V_R = 3\text{ V}$ | 5 | | 7 | |
| Capacitance ratio | $C_{D(1V)}/C_{D(3V)}$ | | 2.2 | | | |
| Series resistance * | r_s | $V_R = 9\text{ pF}, f = 470\text{ MHz}$ | | 1.9 | 1 | Ω |

Note :

1. Rated input/output frequency: 470 MHz
2. * : rf measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER

■ Marking

| | |
|---------|----|
| Marking | 7X |
|---------|----|