

MA2S367

Silicon epitaxial planar type

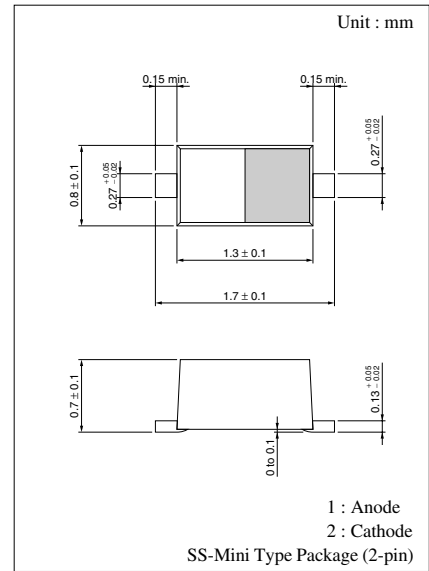
For AFC of UHF and VHF electronic tuner

■ Features

- Large capacitance ratio
- Small series resistance r_D
- SS-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 | Rating | Unit |
|----------------------|-----------|-------------|------------------|
| Reverse voltage (DC) | V_R | 30 | V |
| Peak reverse voltage | V_{RM} | 34 | V |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |



Marking Symbol: P

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

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|----------------------|------------------------|-----------------------------------------|------|-----|------|----------|
| Reverse current (DC) | I_R | $V_R = 30\text{ V}$ | | | 10 | nA |
| Diode capacitance | $C_{D(2V)}$ | $V_R = 2\text{ V}, f = 1\text{ MHz}$ | 10.5 | | 16.0 | pF |
| | $C_{D(10V)}$ | $V_R = 10\text{ V}, f = 1\text{ MHz}$ | 3.3 | | 5.7 | pF |
| Capacitance ratio | $C_{D(2V)}/C_{D(10V)}$ | | 2.8 | | 3.4 | — |
| Series resistance* | r_D | $V_R = 9\text{ pF}, f = 470\text{ MHz}$ | | | 1.6 | Ω |

Note) 1. Rated input/output frequency: 470 MHz

2. *: r_f measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER