

MA2Z371 (MA371)

Silicon epitaxial planar type

For CATV tuner

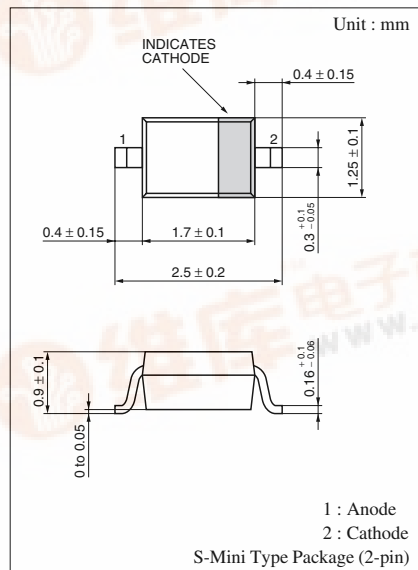
■ Features

- Large capacitance ratio
- 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 | Rating | Unit |
|-----------------------|-----------|-------------|------------------|
| Reverse voltage (DC) | V_R | 32 | V |
| Peak reverse voltage* | V_{RM} | 35 | V |
| Forward voltage (DC) | I_F | 20 | mA |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

Note) * : $R_L = 10\text{ k}\Omega$



Marking Symbol: 6S

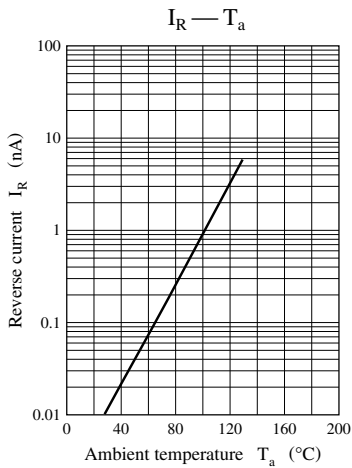
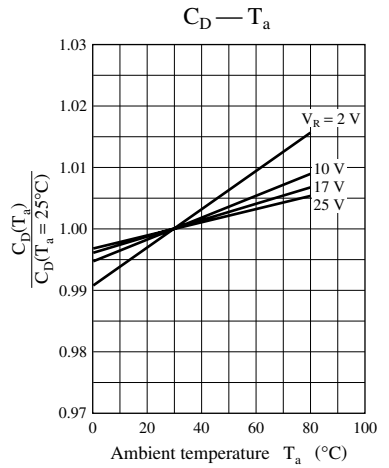
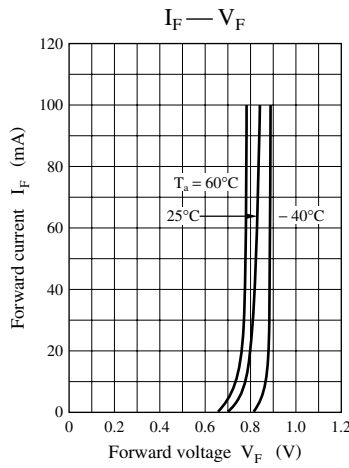
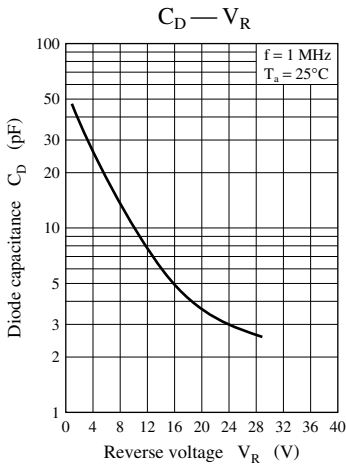
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-----------------------------|------------------------|---|-------|------|--------|----------|
| Reverse current (DC) | I_R | $V_R = 30\text{ V}$ | | | 10 | nA |
| Diode capacitance | $C_{D(2V)}$ | $V_R = 2\text{ V}, f = 1\text{ MHz}$ | 34 | | 38.67 | pF |
| | $C_{D(25V)}$ | $V_R = 25\text{ V}, f = 1\text{ MHz}$ | 2.596 | | 3.195 | pF |
| | $C_{D(10V)}$ | $V_R = 10\text{ V}, f = 1\text{ MHz}$ | 8.010 | | 11.982 | pF |
| | $C_{D(17V)}$ | $V_R = 17\text{ V}, f = 1\text{ MHz}$ | 3.514 | | 5.274 | pF |
| Capacitance ratio | $C_{D(2V)}/C_{D(25V)}$ | | 11.9 | 12.5 | | — |
| Diode capacitance deviation | ΔC | $C_{D(2V)(10V)(17V)(25V)}$ | | | 2.5 | % |
| Series resistance* | r_D | $C_D = 9\text{ pF}, f = 470\text{ MHz}$ | | | 0.75 | Ω |

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

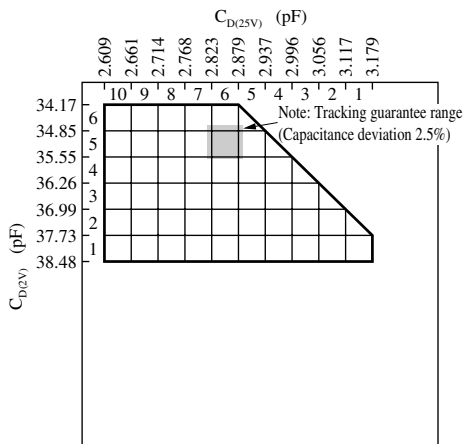
2. * : r_f measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER



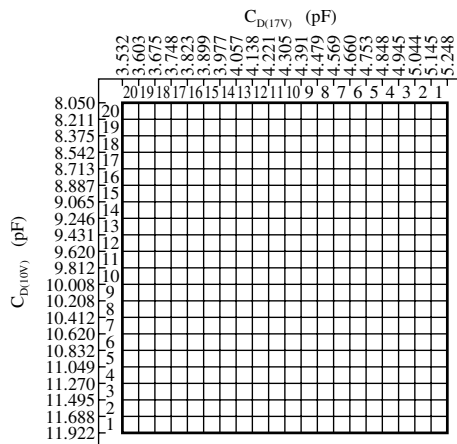


C_D rank classification

Primary rank classification



Secondary rank classification



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