

# MA2X341 (MA341)

## Silicon epitaxial planar type

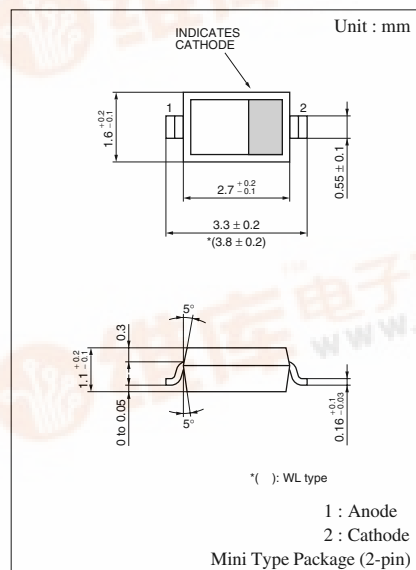
For AFC of UHF and VHF electronic tuner

### ■ Features

- Large capacitance ratio
- Small series resistance  $r_D$
- 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 | $^\circ\text{C}$ |



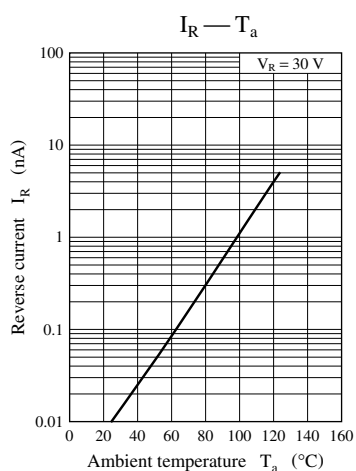
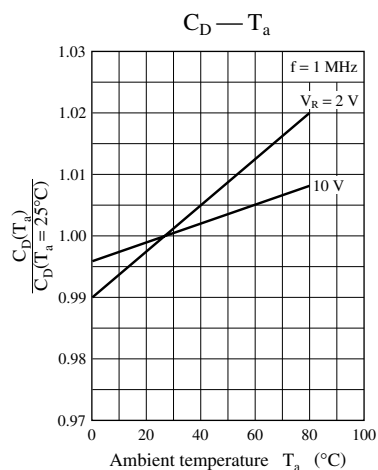
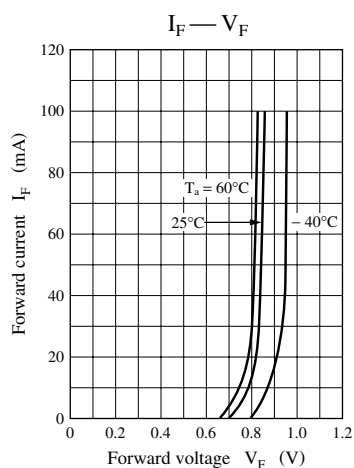
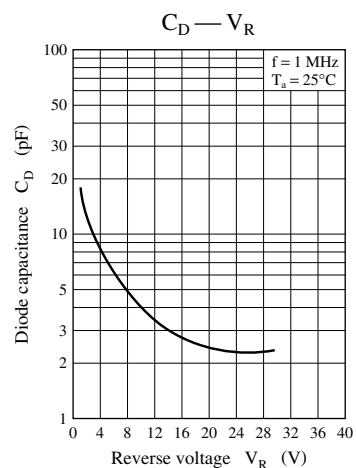
Marking Symbol: 6K

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

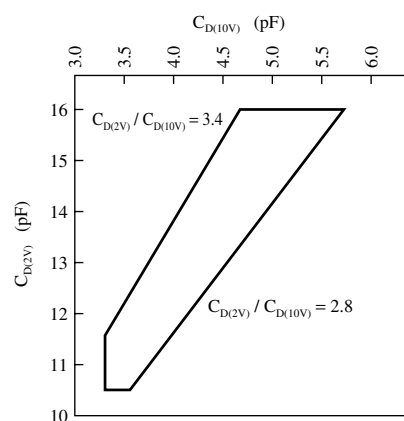
| Parameter            | Symbol                 | Conditions                              | Min  | Typ | Max  | Unit     |
|----------------------|------------------------|---|------|-----|------|----------|
| Reverse current (DC) | $I_R$                  | $V_R = 30\text{ V}$                     |      |     | 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  | $\Omega$ |

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

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



### $C_D$ rank classification



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