

# MA2C723

## Silicon epitaxial planar type

For super-high speed switching circuit

For small current rectification

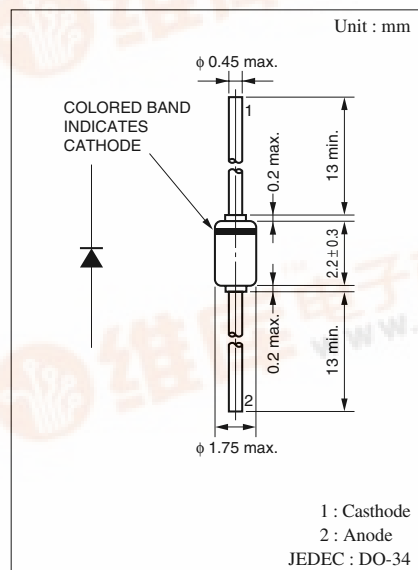
### ■ Features

- Allowing to rectify under ( $I_{F(AV)} = 200$  mA) condition
- Sealed in DO-34 (DHD) package
- Allowing high-density mounting (5 mm pitch insertion)
- High reliability

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

| Parameter                                  | Symbol      | Rating      | Unit             |
|--------------------------------------------|-------------|-------------|------------------|
| Reverse voltage (DC)                       | $V_R$       | 30          | V                |
| Non-repetitive peak forward surge current* | $I_{FSM}$   | 1.5         | A                |
| Peak forward current                       | $I_{FM}$    | 300         | mA               |
| Forward current (DC)                       | $I_{F(AV)}$ | 200         | mA               |
| Junction temperature                       | $T_j$       | 150         | $^\circ\text{C}$ |
| Storage temperature                        | $T_{stg}$   | -55 to +150 | $^\circ\text{C}$ |

Note) \* : The peak-to-peak value in one cycle of 50 Hz sine-wave (non-repetitive)



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

| Parameter              | Symbol   | Conditions                                                     | Min | Typ | Max  | Unit          |
|------------------------|----------|----------------------------------------------------------------|-----|-----|------|---------------|
| Reverse current (DC)   | $I_R$    | $V_R = 30$ V                                                   |     |     | 50   | $\mu\text{A}$ |
| Forward voltage (DC)   | $V_F$    | $I_F = 200$ mA                                                 |     |     | 0.55 | V             |
| Terminal capacitance   | $C_t$    | $V_R = 0$ V, $f = 1$ MHz                                       |     | 30  |      | pF            |
| Reverse recovery time* | $t_{rr}$ | $I_F = I_R = 100$ mA<br>$I_{rr} = 10$ mA, $R_L = 100$ $\Omega$ |     | 3.0 |      | ns            |

Note) 1. Schottky barrier diode is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment

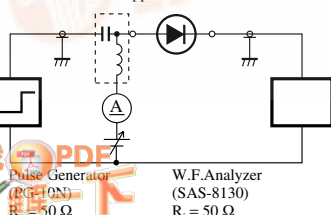
2. Rated input/output frequency: 1 000 MHz

3. \* :  $t_{rr}$  measuring instrument

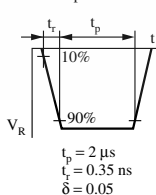
### ■ Cathode Indication

Color band in pink

Bias Application Unit N-50BU



Input Pulse



Output Pulse

