

# MA2C029W

## Silicon epitaxial planar type

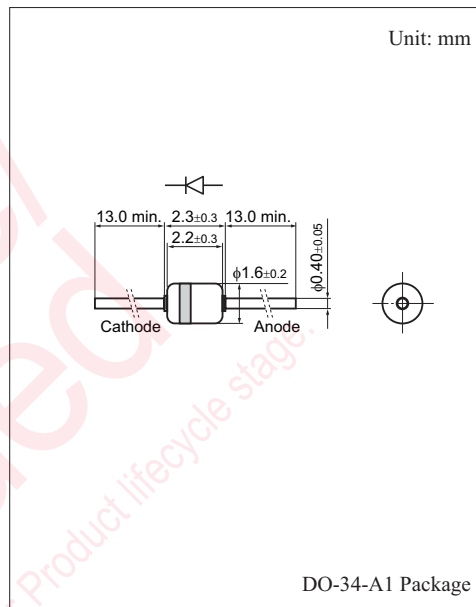
For reduced voltage and temperature compensation

### ■ Features

- High reliability achieved through combination of a planar type chip and glass sealing structure
- Easy mounting because of employing DO-35 (DHD) envelope
- Extremely small reverse current  $I_R$
- Large power dissipation  $P_D$
- Wide forward voltage  $V_F$  range

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

| Parameter            | Symbol    | Rating      | Unit             |
|----------------------|-----------|-------------|------------------|
| Reverse voltage      | $V_R$     | 6           | V                |
| Peak forward current | $I_{FM}$  | 100         | mA               |
| Power dissipation    | $P_D$     | 150         | mW               |
| Junction temperature | $T_j$     | 150         | $^\circ\text{C}$ |
| Storage temperature  | $T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |



### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}^{*1}$

| Parameter                                     | Symbol              | Conditions             | Min  | Typ | Max | Unit                       |
|---|---------------------|------------------------|------|-----|-----|----------------------------|
| Forward current                               | $V_{F1}$            | $I_R = 10 \mu\text{A}$ | 0.77 |     |     | V                          |
|   | $V_{F2}$            | $I_F = 3 \text{ mA}$   |      | *2  |     |                            |
| Reverse current                               | $I_R$               | $V_R = 6 \text{ V}$    |      |     | 1.0 | $\mu\text{A}$              |
| Temperature coefficient of forward voltage *3 | $-\Delta V_F / V_T$ | $I_F = 3 \text{ mA}$   |      | 4.6 |     | $\text{mV}/^\circ\text{C}$ |

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. \*1: The temperature must be controlled  $25^\circ\text{C}$  for  $V_F$  measurement.  $V_F$  value measured at other temperature must be adjusted to  $V_F (25^\circ\text{C})$

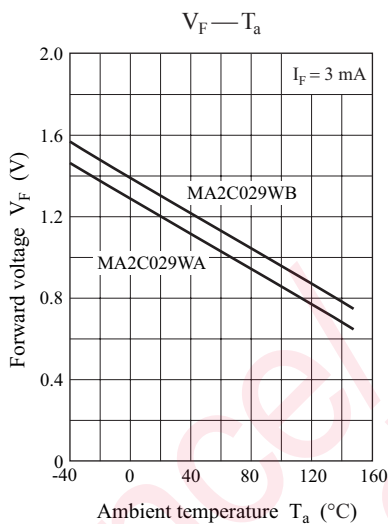
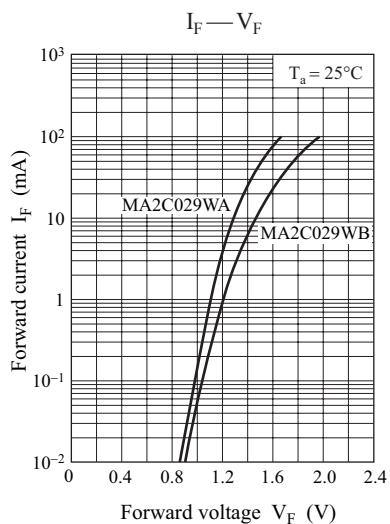
\*2:

| Type      | $V_F (V)$    |
|-----------|--------------|
| MA2C029WA | 1.18 to 1.28 |
| MA2C029WB | 1.26 to 1.36 |

\*3:  $T_j = 25^\circ\text{C}$  to  $150^\circ\text{C}$

### ■ Cathode Indication

| Type No. | MA2C029WA  | MA2C029WB |
|----------|------------|-----------|
| Color    | Light blue | Brown     |



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