

# MA30 Series

## Silicon epitaxial planer type variable resistor

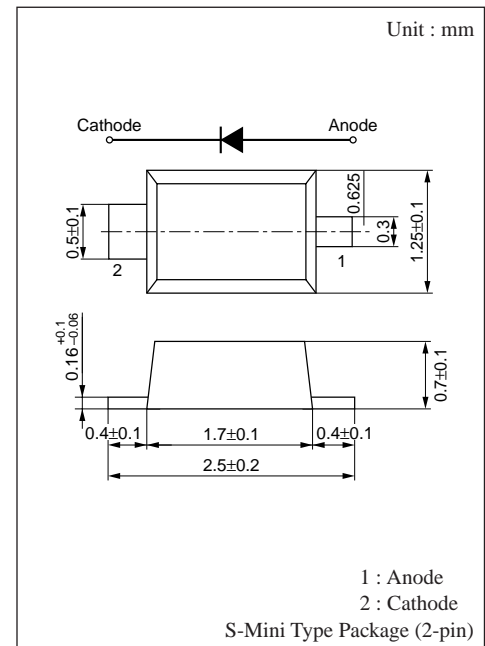
For temperature and reduced voltage compensation

### ■ Features

- S-Mini type package enabling high-density mounting
- 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 (DC) | $V_R$     | 6            | V                |
| Forward current (DC) | MA30-A/B  | 150          | mA               |
|                      | MA30W-A/B | 100          |                  |
| Power dissipation    | $P_D$     | 100          | mW               |
| Junction temperature | $T_j$     | 125          | $^\circ\text{C}$ |
| Storage temperature  | $T_{stg}$ | - 55 to +125 | $^\circ\text{C}$ |



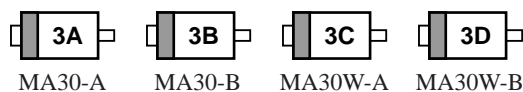
### ■ Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

| Parameter                                  | Symbol    | Condition                  | min                   | typ                | max | Unit          |                      |
|--|-----------|----------------------------|-----------------------|--------------------|-----|---------------|----------------------|
| Reverse current (DC)                       | $I_R$     | $V_R = 6\text{V}$          |                       |                    | 1   | $\mu\text{A}$ |                      |
| Forward voltage (DC)                       | MA30-A/B  | $V_{F1}$                   | $I_F = 1.5\text{mA}$  | 0.56               |     | 0.61          | V                    |
|  |           |                            |                       | 0.59               |     | 0.64          |                      |
|  | MA30W-A/B | $V_{F1}$                   | $I_F = 10\mu\text{A}$ | 0.77               |     |               |                      |
| Forward voltage (DC)                       | MA30W-A   | $V_{F2}$                   | $I_F = 3\text{mA}$    | 1.18               |     | 1.28          | V                    |
|  | MA30W-B   |                            |                       | 1.26               |     | 1.36          |                      |
| Temperature coefficient of forward voltage | MA30-A/B  | $-\Delta V_F / \Delta T^*$ | $I_F = 1.5\text{mA}$  |                    | 2   |               | mV/ $^\circ\text{C}$ |
|  | MA30W-A/B |                            |                       | $I_F = 3\text{mA}$ |     | 4.6           |                      |

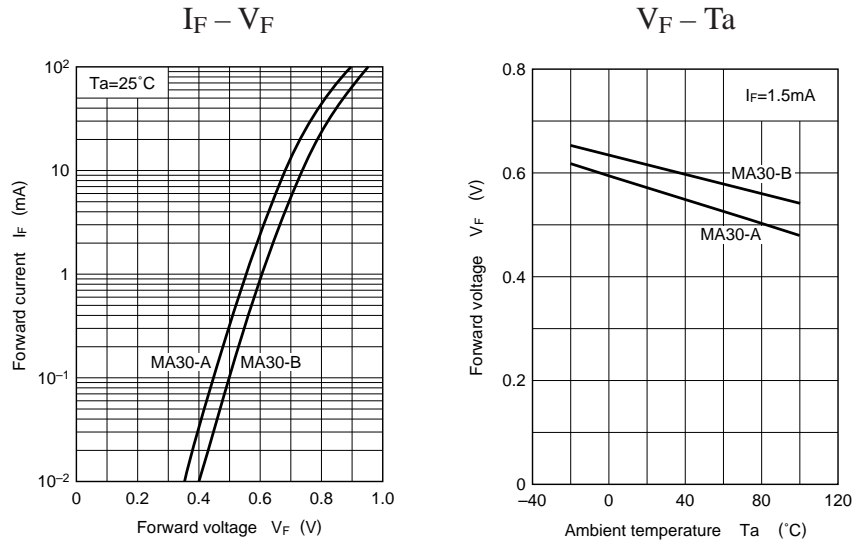
Note 1 : Rated input/output frequency : 100MHz

2 : \*  $T_j = 25$  to  $125^\circ\text{C}$

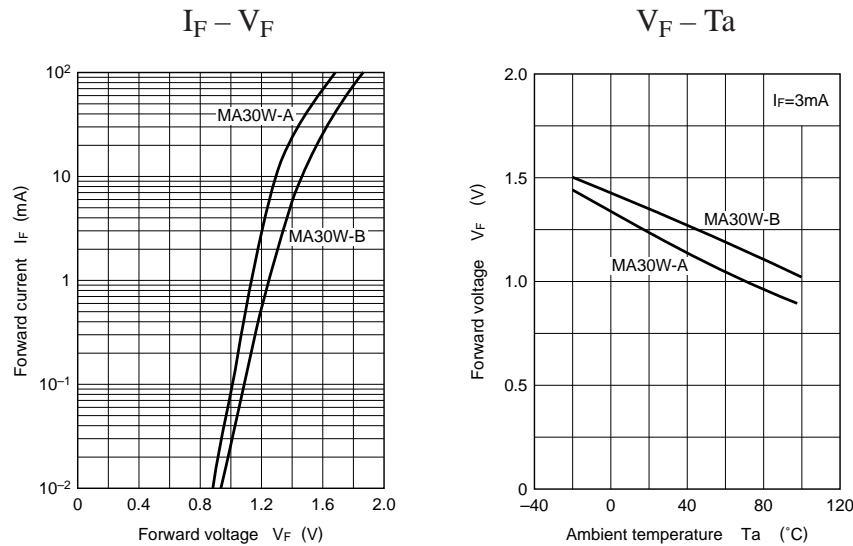
### ■ Marking



**Common characteristics chart of MA30**



**Characteristics chart of MA30W**



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