

# MA30 Series

## Silicon epitaxial planer type variable resistor

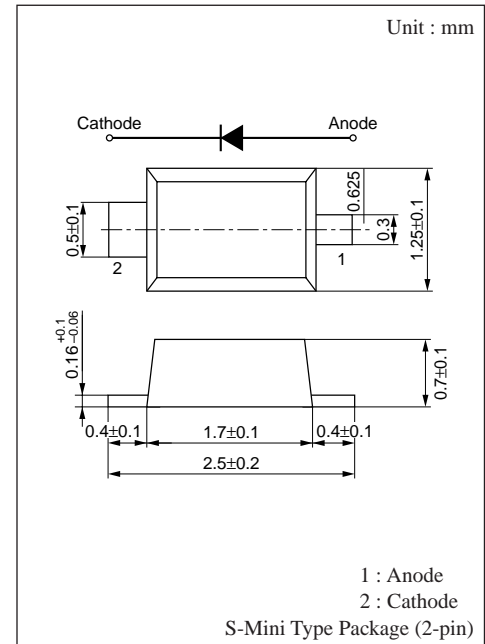
For temperature and reduced voltage compensation

### ■ 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	$^\circ\text{C}$



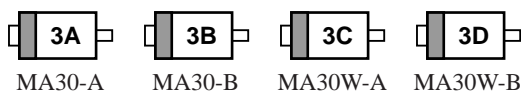
### ■ Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Condition	min	typ	max	Unit	
Reverse current (DC)	$I_R$	$V_R = 6V$			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		$\text{mV}/^\circ\text{C}$
	MA30W-A/B			$I_F = 3\text{mA}$		4.6	

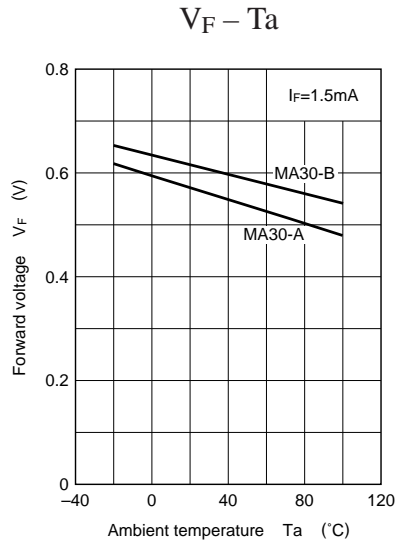
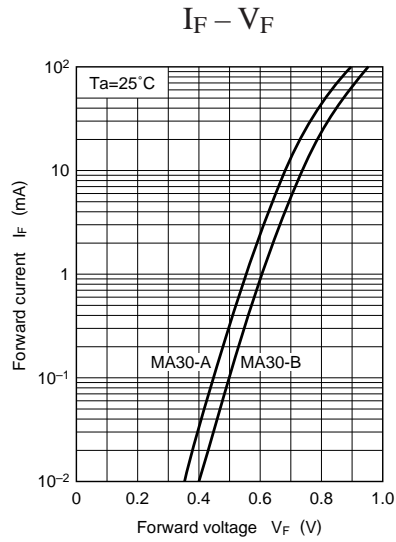
Note 1 : Rated input/output frequency : 100MHz

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

### ■ Marking



**Common characteristics chart of MA30**



**Characteristics chart of MA30W**

