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# MA2Z030 Series (MA30 Series)

## Silicon epitaxial planar type

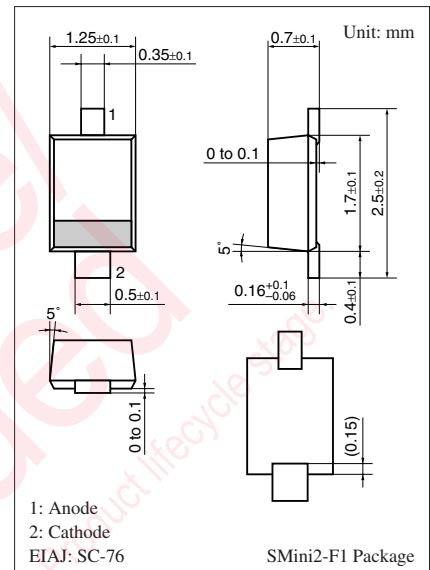
For reduced voltage and temperature compensation

### ■ Features

- S-mini type package, allowing 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	$V_R$	6	V	
Peak forward current	MA2Z030A/B MA2Z030WA/WB	$I_{FM}$	150	mA
			100	
Power dissipation	$P_D$	100	mW	
Junction temperature	$T_j$	125	$^\circ\text{C}$	
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$	



### Marking Symbol

- MA2Z0300A: 3A
- MA2Z0300B: 3B
- MA2Z030WA: 3C
- MA2Z030WB: 3D

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit	
Forward voltage	MA2Z030A MA2Z030B	$V_{F1}$	$I_F = 1.5 \text{ mA}$	0.56		0.61	V
				0.59		0.64	
	MA2Z030WA/WB	$I_F = 10 \mu\text{A}$	0.77				
Forward voltage	MA2Z030WA MA2Z030WB	$V_{F2}$	$I_F = 3 \text{ mA}$	1.18		1.28	V
				1.26		1.36	
Reverse current	$I_R$	$V_R = 6 \text{ V}$			1.0	$\mu\text{A}$	
Temperature coefficient of forward voltage *2	MA2Z030A/B MA2Z030WA/WB	$-\Delta V_F / \Delta T$	$I_F = 1.5 \text{ mA}$		2.0		mV/ $^\circ\text{C}$
				$I_F = 3 \text{ mA}$		4.6	

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

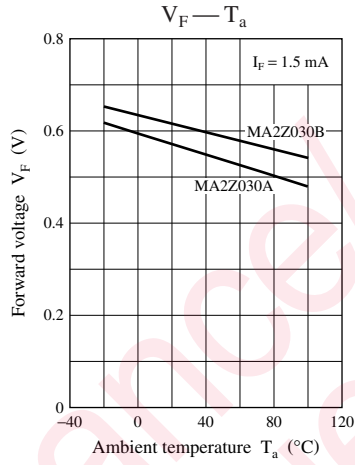
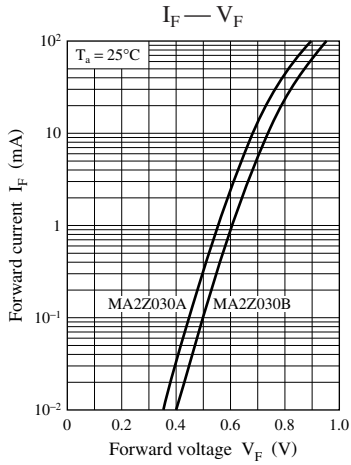
2. Absolute frequency of input and output is 100 MHz.

3. \*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  $V_F(25^\circ\text{C})$ .

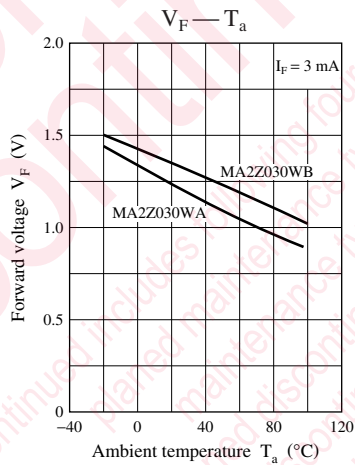
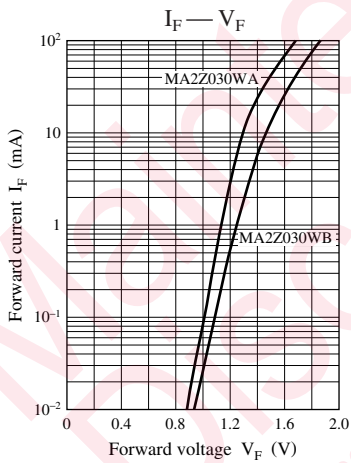
\*2:  $T_j = 25^\circ\text{C}$  to  $125^\circ\text{C}$

Note) The part numbers in the parenthesis show conventional part number.

Characteristics charts of MA2Z030



Characteristics charts of MA2Z030W



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