# imall

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Panasonic

## MA3X028 Series (MA28 Series)

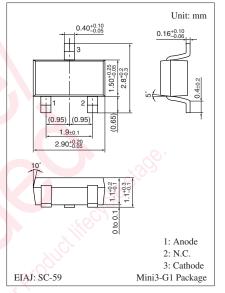
#### Silicon epitaxial planar type

For reduced voltage and temperature compensation

#### Features

- Extremely small reverse current I<sub>R</sub>
- High reliability with planar structure
- Wide forward voltage V<sub>F</sub> range

Absolute Maximum Ratings $T_a = 25^{\circ}C$					
Parameter		Symbol	Rating	Unit	
Reverse voltage		V <sub>R</sub>	6	V	
Peak forward	MA3X0280A/B	I <sub>FM</sub>	150	mA	
current	MA3X028WA/WB		100		
	MA3X028TA/TB		70		
Power dissipation		P <sub>D</sub>	150	mW	
Junction temperature		Tj	125	°C	
Storage temperature		T <sub>stg</sub>	-55 to +125	°C	



#### Marking Symbol

• •	
• MA3X0280A	: MD

• MA3X0280B	: ME
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MA3X028WA	:	MF

- MA3X028WB : MK
- MA3X028TA : ML
- MA3X028TB : MM

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	MA3X028WA/WB	V <sub>F1</sub>	$I_F = 10 \ \mu A$	0.77	2		V
	MA <mark>3X</mark> 028TA/TB	$\mathcal{O}_{\mathcal{O}}$	Con Roy	1.15			
Forward voltage	MA3X0280A	V <sub>F2</sub>	I <sub>F</sub> = 1.5 mA	0.56		0.61	V
	MA3X0280B		A MILLS CIC	0.59		0.64	
	MA3X028WA		$I_F = 3 \text{ mA}$	1.18		1.28	
	MA3X028WB		it is and	1.26		1.36	1
	MA3X028TA		113. 114	1.76		1.92	
	MA3X028TB		AS XXQ	1.88		2.04	
Reverse current		I <sub>R</sub>	$V_R = 6 V$			1.0	μΑ
Temperature coefficient of	MA3X0280A/B	$-\Delta V_F / \Delta T$	$I_F = 3 \text{ mA}$		2.0		mV/°C
	MA3X028WA/B				4.6		
forward voltage *2	MA3X028TA/B				6.5		1

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

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

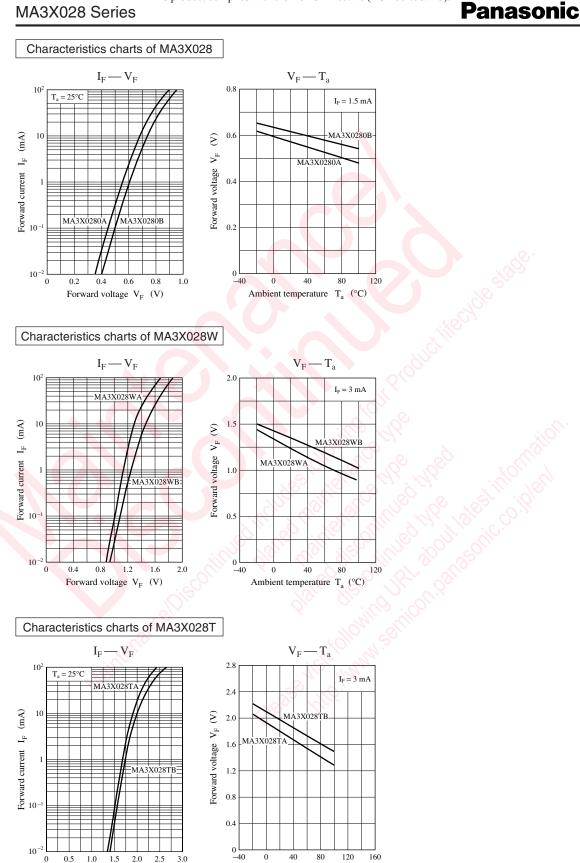
2. Absolute frequency of input and output is 100 MHz

3. \*1: The temperature must be controlled 25°C for  $V_F$  measurement.  $V_F$  value measured at other temprature must be adjusted to  $V_F$  (25°C).

\*2:  $T_i = 25^{\circ}C$  to  $150^{\circ}C$ 

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

#### MA3X028 Series



SKB00003CED

Ambient temperature T<sub>a</sub> (°C)

Forward voltage V<sub>F</sub> (V)

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