

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	MA3X028TAL
Manufacturer:	Panasonic Electronic Components
Package:	TO-236-3, SC-59, SOT-23-3
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/panasonic-electronic-components/ma3x028tal.html>

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Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

MA3X028 Series (MA28 Series)

Silicon epitaxial planar type

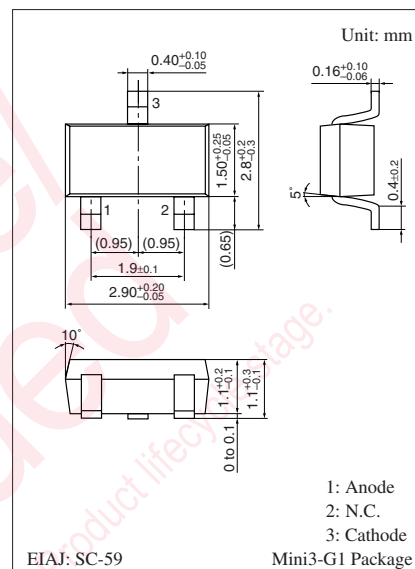
For reduced voltage and temperature compensation

■ Features

- Extremely small reverse current I_R
- High reliability with planar structure
- 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	MA3X0280A/B I_{FM}	150	mA
	MA3X028WA/WB	100	
	MA3X028TA/TB	70	
Power dissipation	P_D	150	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$



Marking Symbol

- MA3X0280A : MD
- MA3X0280B : ME
- MA3X028WA : MF
- MA3X028WB : MK
- MA3X028TA : ML
- MA3X028TB : MM

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

Parameter		Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	MA3X028WA/WB	V_{F1}	$I_F = 10\ \mu\text{A}$	0.77			V
	MA3X028TA/TB			1.15			
Forward voltage	MA3X0280A	V_{F2}	$I_F = 1.5\ \text{mA}$	0.56		0.61	V
	MA3X0280B			0.59		0.64	
	MA3X028WA	$I_F = 3\ \text{mA}$	1.18		1.28		
	MA3X028WB		1.26		1.36		
	MA3X028TA		1.76		1.92		
	MA3X028TB		1.88		2.04		
	Reverse current		I_R	$V_R = 6\ \text{V}$			
Temperature coefficient of forward voltage *2	MA3X0280A/B	$-\Delta V_F/\Delta T$	$I_F = 3\ \text{mA}$		2.0		mV/°C
	MA3X028WA/B				4.6		
	MA3X028TA/B				6.5		

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

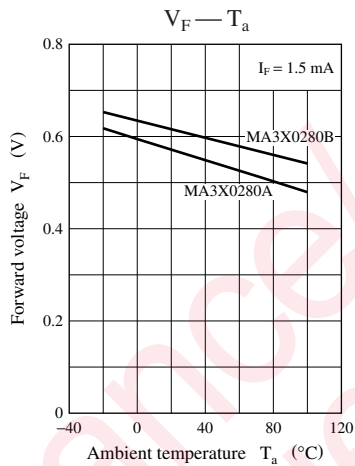
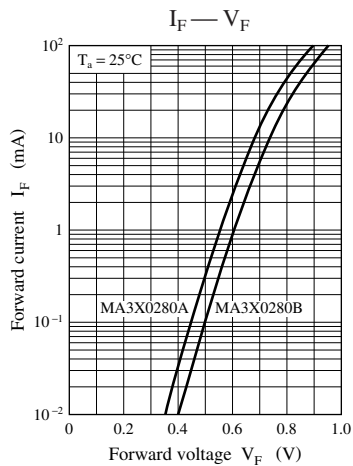
2. Absolute frequency of input and output is 100 MHz

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

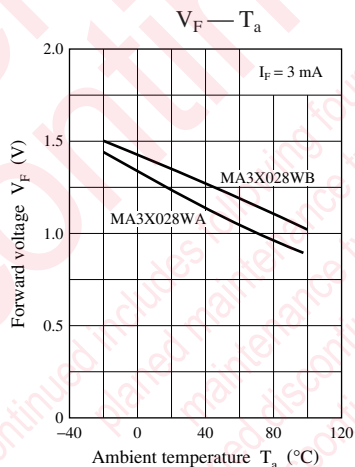
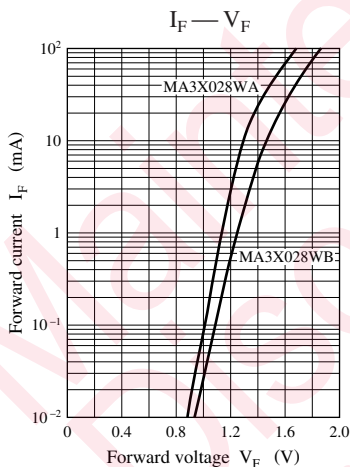
*2 : $T_j = 25^\circ\text{C}$ to 150°C

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

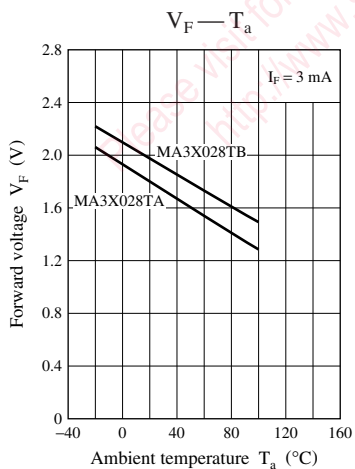
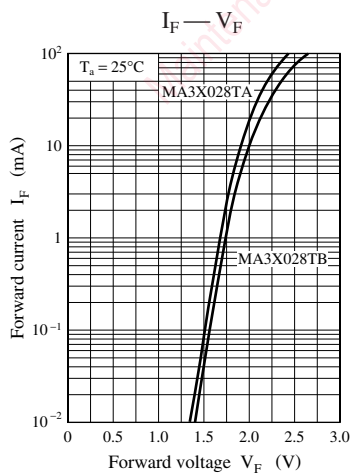
Characteristics charts of MA3X028



Characteristics charts of MA3X028W



Characteristics charts of MA3X028T



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