

# MA3X028 Series (MA28 Series)

## Silicon epitaxial planar type variable resistor

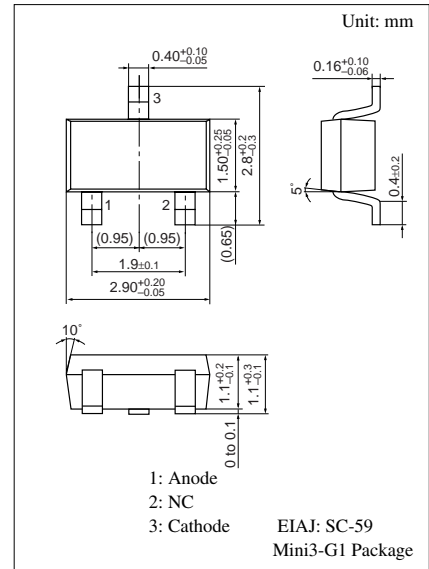
For temperature and reduced voltage compensation

### ■ Features

- Mini type package
- 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 (DC)	$V_R$	6	V	
Forward current (DC)	MA3X0280A/B	$I_{FM}$	mA	
	MA3X028WA/WB			150
	MA3X028TA/TB			100
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

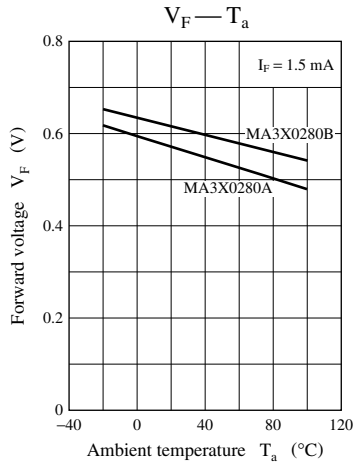
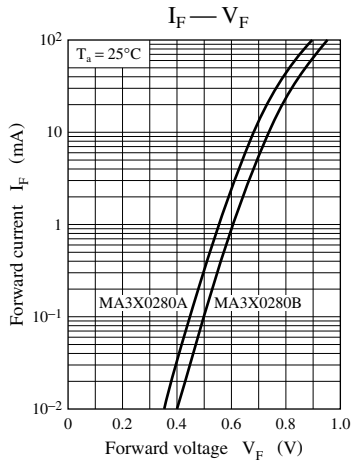
### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit		
Reverse current (DC)	$I_R$	$V_R = 6\text{ V}$			1.0	$\mu\text{A}$		
Forward voltage (DC)	MA3X028WA/WB	$V_{F1}$	$I_F = 10\ \mu\text{A}$	0.77			V	
	MA3X028TA			1.15				
Forward voltage (DC)	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
Temperature coefficient of forward voltage	MA3X0280A/B	$-\Delta V_F / \Delta T$	$I_F = 3\ \text{mA}$		2.0		$\text{mV}/^\circ\text{C}$	
	MA3X028WA				4.6			
	MA3X028TA				6.5			

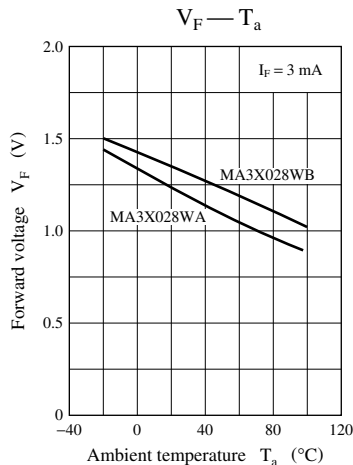
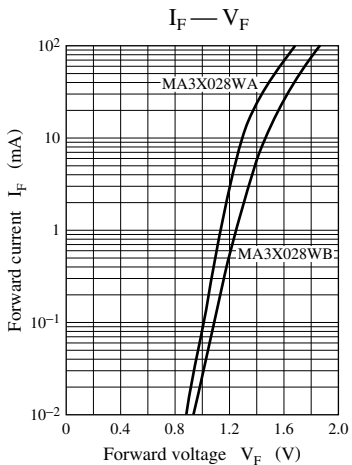
Note) Rated input/output frequency: 100 MHz

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

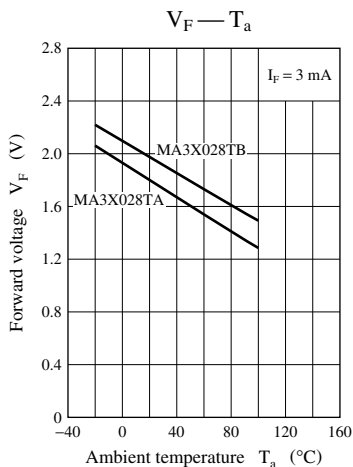
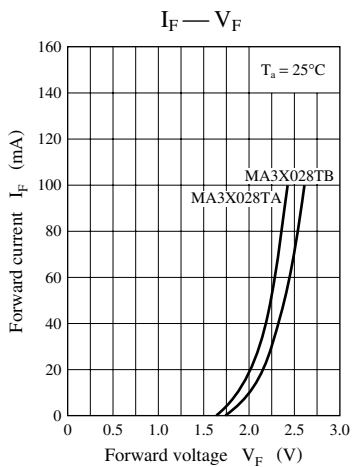
Characteristics charts of MA3X028



Characteristics charts of MA3X028W



Characteristics charts of MA3X028T



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