

# MA3X028 Series

## Silicon epitaxial planar type variable resistor

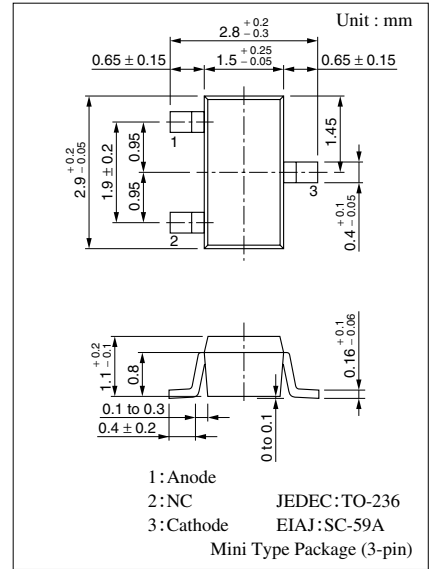
For temperature and reduced voltage compensation

### ■ 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	$I_{FM}$ 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

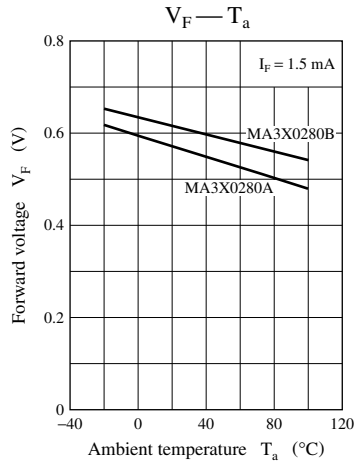
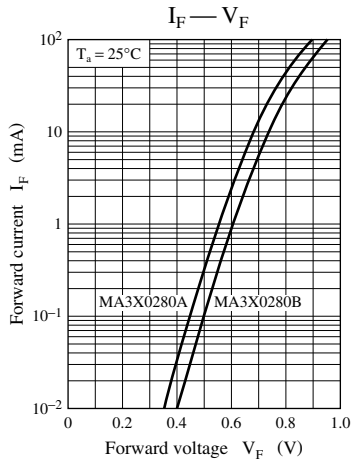
- MA3X0280A : MD
- MA3X0280B : ME
- MA3X028WA : MF
- MA3X028WB : MK
- MA3X028TA : ML
- MA3X028TB : MM

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

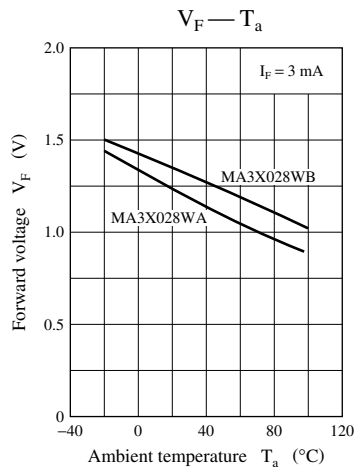
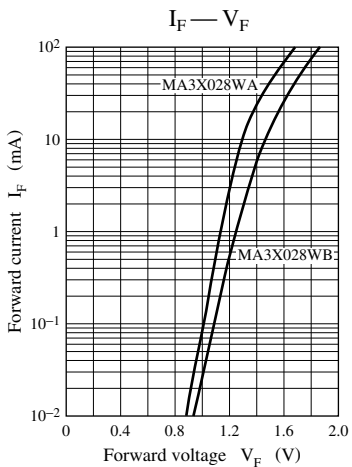
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 6\text{ V}$			1.0	$\mu\text{A}$
Forward voltage (DC)	MA3X028WA/WB	$I_F = 10\ \mu\text{A}$	0.77			V
	MA3X028TA		1.15			
Forward voltage (DC)	MA3X0280A	$I_F = 1.5\ \text{mA}$	0.56		0.61	V
	MA3X0280B		0.59		0.64	
	MA3X028WA	$I_F = 3\ \text{mA}$	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	$-\Delta V_F / \Delta T$		2.0		$\text{mV}/^\circ\text{C}$
	MA3X028WA			4.6		
	MA3X028TA			6.5		

Note) Rated input/output frequency: 100 MHz

Characteristics charts of MA3X028



Characteristics charts of MA3X028W



Characteristics charts of MA3X028T

