

MA3X028 series (MA28 Series)

Silicon epitaxial planar type variable resistor

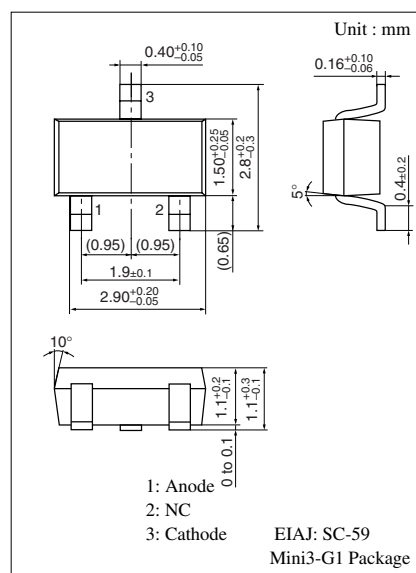
For temperature and reduced voltage compensation

■ 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}	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

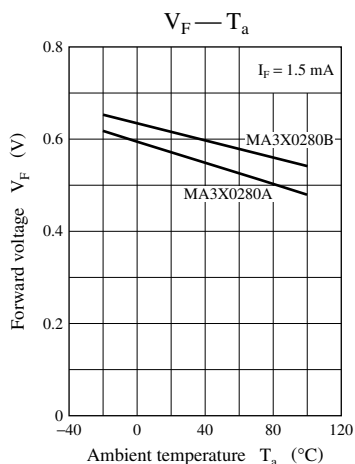
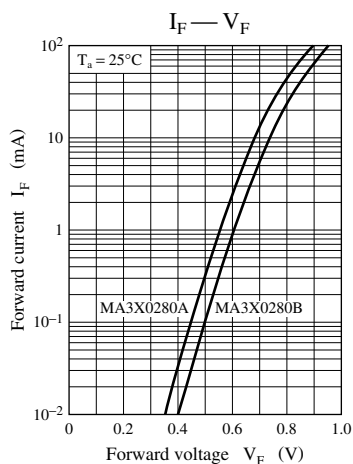
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter		Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)		I_R	$V_R = 6\text{ V}$			1.0	μA
Forward voltage (DC)	MA3X028WA/WB	V_{F1}	$I_F = 10\text{ }\mu\text{A}$	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		

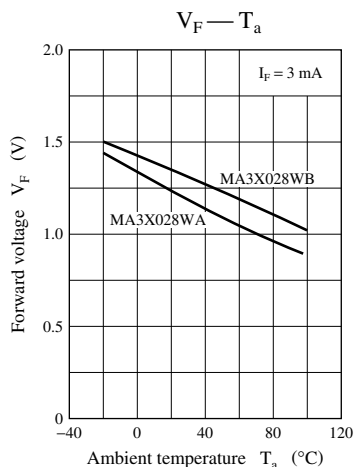
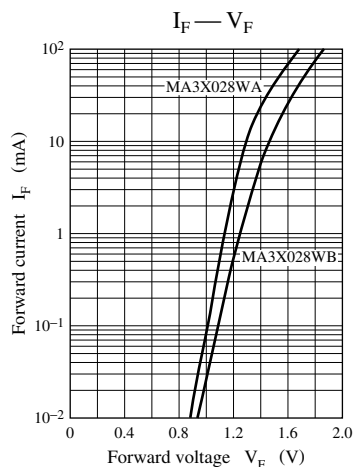
Note) Rated input/output frequency: 100 MHz

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

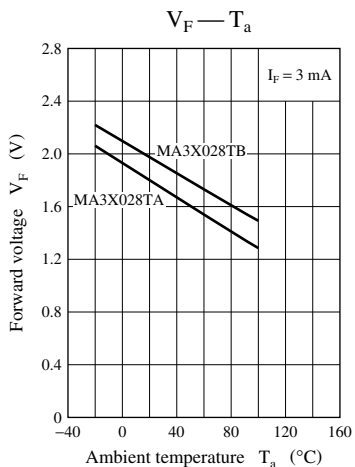
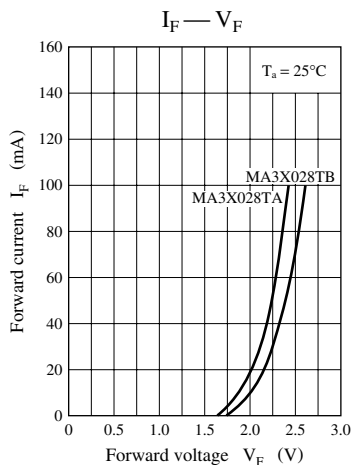
Characteristics charts of MA3X028



Characteristics charts of MA3X028W



Characteristics charts of MA3X028T



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