MA3X028 Series (MA28 Series)

Silicon epitaxial planar type

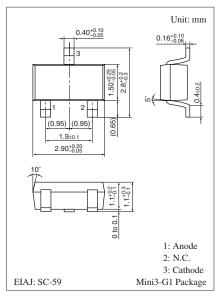
For reduced voltage and temperature compensation

■ Features

- Extremely small reverse current I_R
- High reliability with planar structure
- Wide forward voltage V_F range

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	6	V
Peak forward	MA3X0280A/B	I_{FM}	150	mA
current	MA3X028WA/WB		100	
	MA3X028TA/TB		70	
Power dissipation		P_{D}	150	mW
Junction temperature		T _j	125	°C
Storage temperature		T _{stg}	-55 to +125	°C



Marking Symbol

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

■ Electrical Characteristics $T_a = 25$ °C ± 3 °C *1

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	MA3X028WA/WB	V_{F1}	$I_F = 10 \mu A$	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	$V_R = 6 \text{ V}$			1.0	μΑ
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		

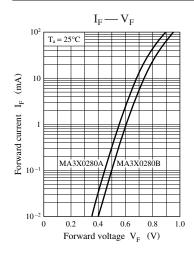
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

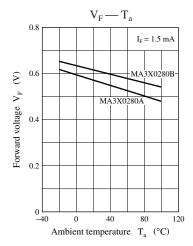
- 2. Absolute frequency of input and output is 100 MHz
- 3. *1: The temperature must be controlled 25°C for V_F measurement. V_F value measured at other temprature must be adjusted to V_F (25°C).

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

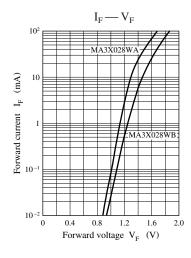
Note) The part numbers in the parenthesis show conventional part number.

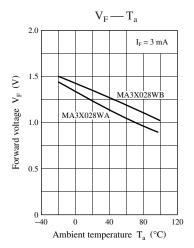
Characteristics charts of MA3X028



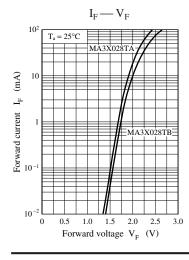


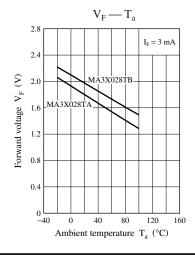
Characteristics charts of MA3X028W





Characteristics charts of MA3X028T





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