

# MA2C029 Series (MA29 Series)

## Silicon epitaxial planar type variable resistor

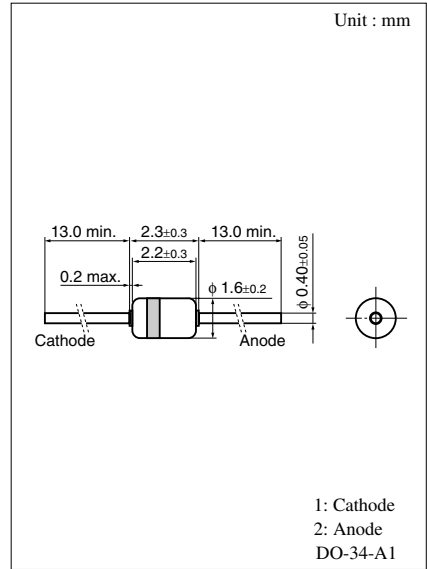
For temperature and reduced voltage compensation

### ■ Features

- High reliability achieved through combination of a planar type chip and glass sealing structure
- Easy mounting because of employing DO-35 (DHD) envelope
- Extremely small reverse current  $I_R$
- Large power dissipation
- 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)	MA2C0290A/B	$I_{FM}$	mA
	MA2C029WA/WB		
	MA2C029TA/TB		
	MA2C029QA/QB		
Power dissipation	$P_{tot}$	150	mW
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$



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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit			
Reverse current (DC)	$I_R$	$V_R = 6\text{ V}$			10	$\mu\text{A}$			
					1				
		Forward voltage (DC)	$V_{F1}$	$I_F = 1.5\text{ mA}$	0.56			0.61	V
					0.59			0.64	
$V_{F1} = 10\ \mu\text{A}$	0.77								
	1.15								
	1.60								
Forward voltage (DC)	$V_{F2}$	$I_F = 50\text{ mA}$			1.1	V			
			$I_F = 3\text{ mA}$	1.18			1.28		
		1.26			1.36				
		1.76			1.92				
		1.88			2.04				
		2.20			2.40				
		2.34			2.54				
		Temperature coefficient of forward voltage	$-\Delta V_F / \Delta T$	$I_F = 1.5\text{ mA}$ ( $T_j = 25^\circ\text{C}$ to $+150^\circ\text{C}$ )			2.0		$\text{mV}/^\circ\text{C}$
$I_F = 3\text{ mA}$ ( $T_j = 25^\circ\text{C}$ to $+150^\circ\text{C}$ )					4.6				
					6.5				
					8.8				

Note) Rated input/output frequency: 100 MHz

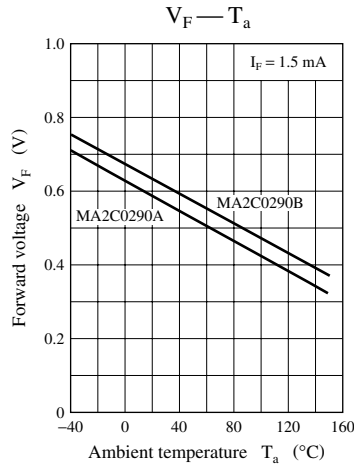
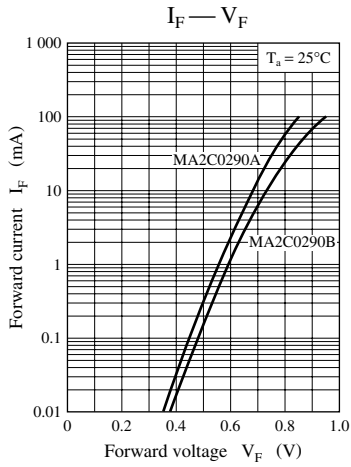
### ■ Cathode Indication

Type No.	MA2C0290A	MA2C0290B	MA2C029WA	MA2C029WB	MA2C029TA*	MA2C029TB*	MA2C029QA*	MA2C029QB*
Color	Red	Blue	Light Blue	Brown	Yellow	Blue	Green	Brown

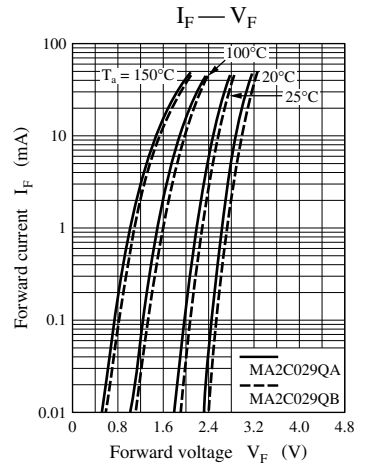
Note) \* : Body Color ; Black

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

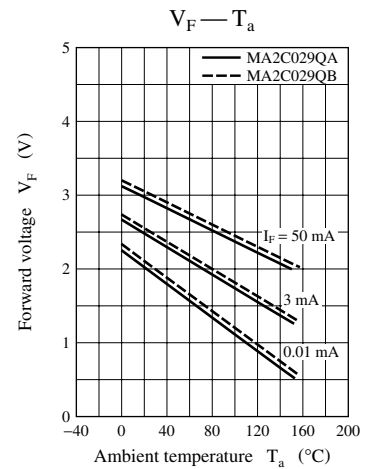
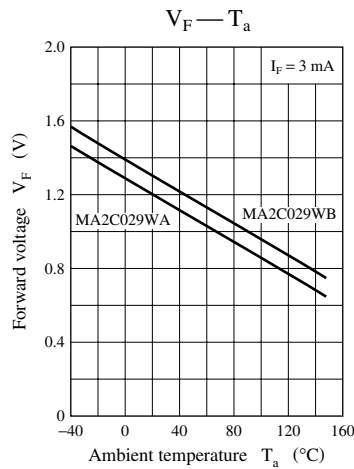
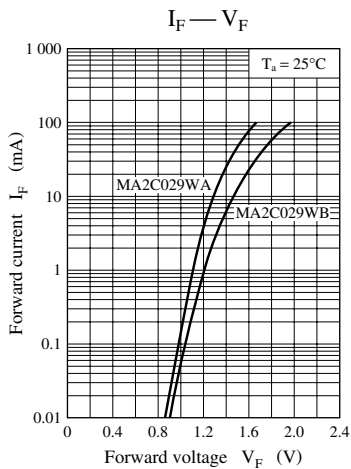
Characteristics charts of MA2C029



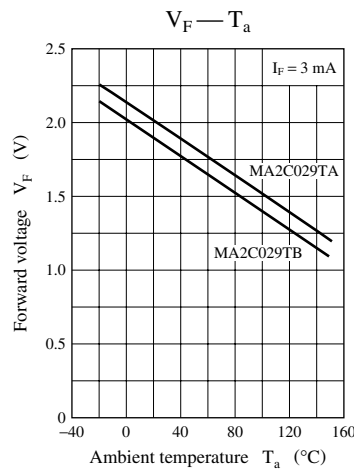
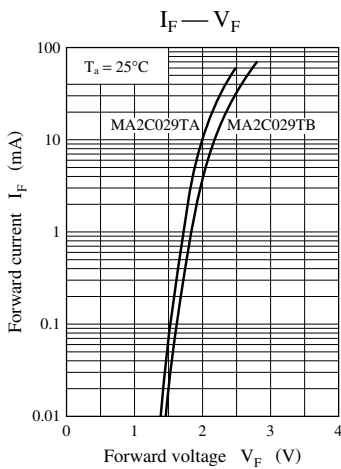
Characteristics charts of MA2C029Q



Characteristics charts of MA2C029W



Characteristics charts of MA2C029T



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