

MA2C029 series (MA29 Series)

Silicon epitaxial planar type variable resistor

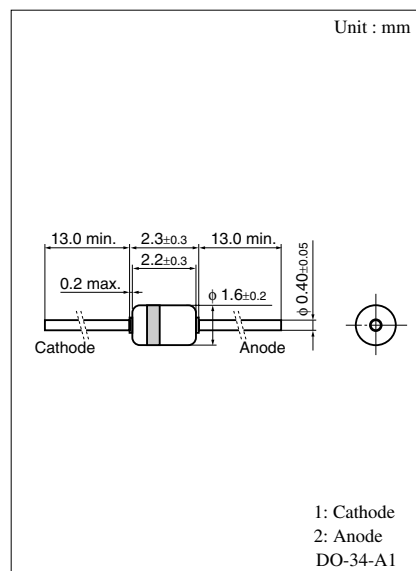
For temperature and reduced voltage compensation

■ 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	μA
		$V_R = 6\text{ V}$			1	
Forward voltage (DC)	V_{F1}	$I_F = 1.5\text{ mA}$	0.56		0.61	V
			0.59		0.64	
		$V_{F1} = 10\text{ }\mu\text{A}$	0.77			
			1.15			
			1.60			
Forward voltage (DC)	V_{F2}	$I_F = 50\text{ mA}$			1.1	V
			1.18		1.28	
		$I_F = 3\text{ mA}$	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		$\text{mV}/^\circ\text{C}$
				4.6		
		$I_F = 3\text{ mA}$ ($T_j = 25^\circ\text{C}$ to $+150^\circ\text{C}$)		6.5		
				8.8		

Note) Rated input/output frequency: 100 MHz

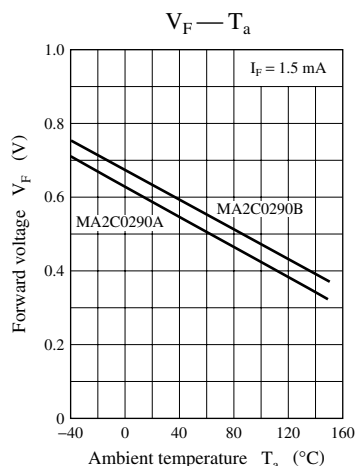
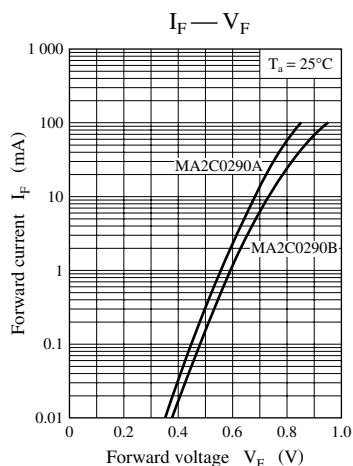
■ Cathode Indication

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

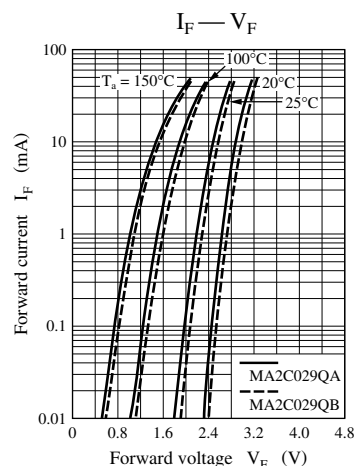
Note) * : Body Color ; Black

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

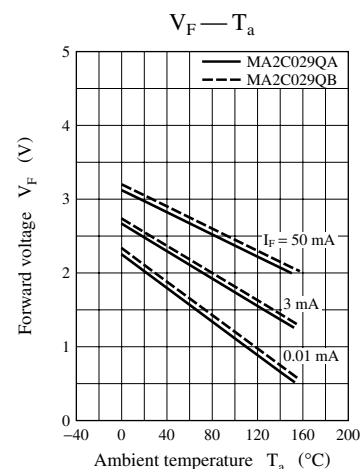
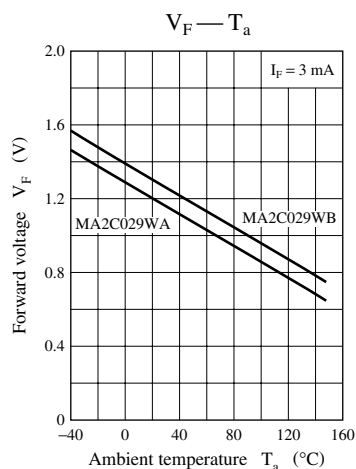
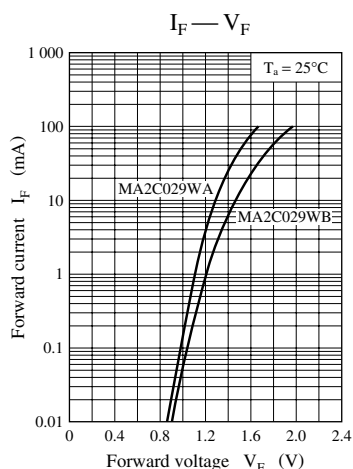
Characteristics charts of MA2C029



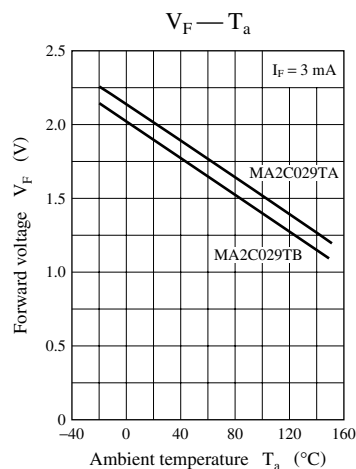
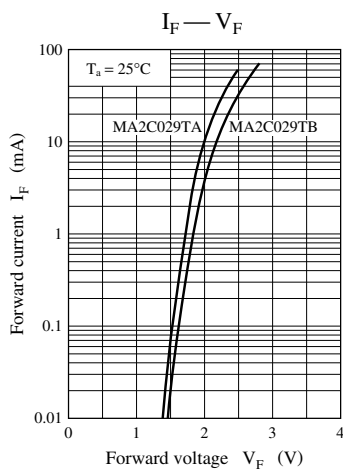
Characteristics charts of MA2C029Q



Characteristics charts of MA2C029W



Characteristics charts of MA2C029T



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