

MA2C029 Series

Silicon epitaxial planar type variable resistor

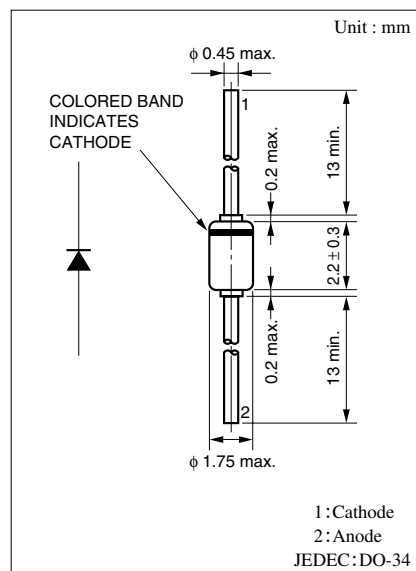
For temperature and reduced voltage compensation

■ 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}	150	mA
	MA2C029WA/WB		100	
	MA2C029TA/TB		70	
	MA2C029QA/QB		50	
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)	MA2C0290A/B	I_R	$V_R = 6\text{ V}$			10	μA
	MA2C029WA/WB		$V_R = 6\text{ V}$			1	
	MA2C029TA/TB						
	MA2C029QA/QB						
Forward voltage (DC)	MA2C0290A	V_{F1}	$I_F = 1.5\text{ mA}$	0.56		0.61	V
	MA2C0290B			0.59		0.64	
	MA2C029WA/WB	$V_{F1} = 10\text{ }\mu\text{A}$		0.77			
	MA2C029TA/TB			1.15			
	MA2C029QA/QB			1.60			
Forward voltage (DC)	MA2C0290A/B	V_{F2}	$I_F = 50\text{ mA}$			1.1	V
	MA2C029WA		$I_F = 3\text{ mA}$	1.18		1.28	
	MA2C029WB			1.26		1.36	
	MA2C029TA			1.76		1.92	
	MA2C029TB			1.88		2.04	
	MA2C029QA			2.20		2.40	
	MA2C029QB			2.34		2.54	
Temperature coefficient of forward voltage	MA2C0290A/B	$-\Delta V_F / \Delta T$	$I_F = 1.5\text{ mA}$ ($T_j = 25^\circ\text{C}$ to $+150^\circ\text{C}$)		2.0		$\text{mV}/^\circ\text{C}$
	MA2C029WA/WB		$I_F = 3\text{ mA}$ ($T_j = 25^\circ\text{C}$ to $+150^\circ\text{C}$)		4.6		
	MA2C029TA/TB				6.5		
	MA2C029QA/QB				8.8		

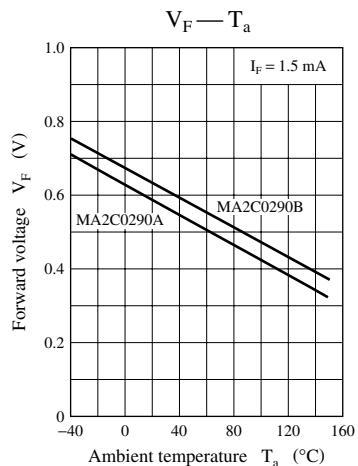
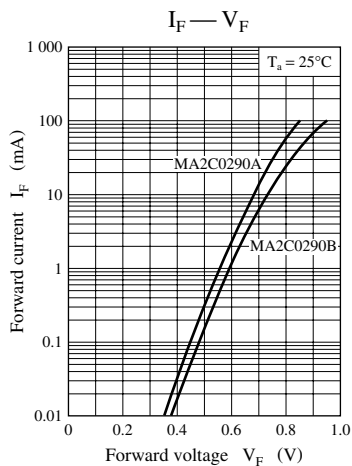
Note) Rated input/output frequency: 100 MHz

■ Cathode Indication

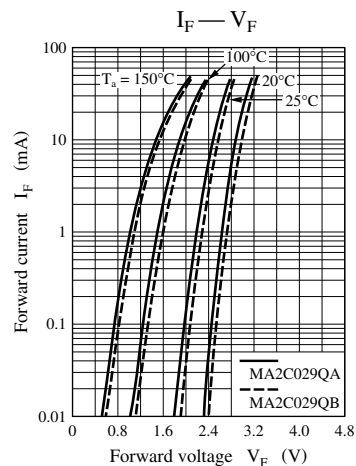
Type No.	MA2C0290A	MA2C0290B	MA2C029WA	MA2C029WB	MA2C029TA*	MA2C029TB*	MA2C029QA*	MA2C029QB*
Color	Red	Blue	Light Blue	Brown	Yellow	Blue	Green	Brown

Note) * : Body Color ; Black

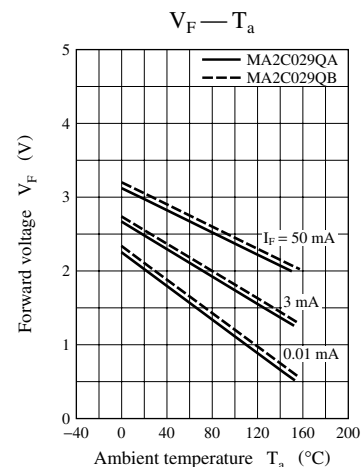
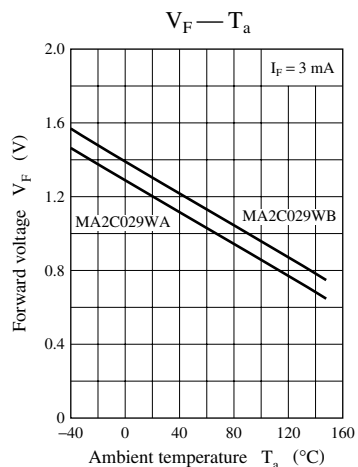
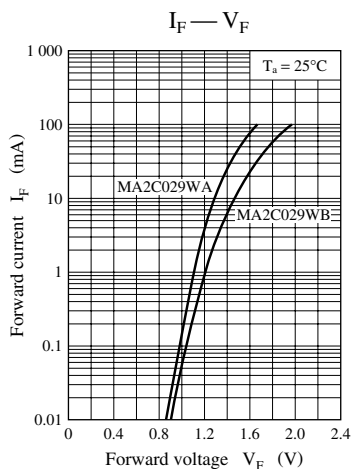
Characteristics charts of MA2C029



Characteristics charts of MA2C029Q



Characteristics charts of MA2C029W



Characteristics charts of MA2C029T

