

MA29 Series

Silicon epitaxial planer type variable resistor

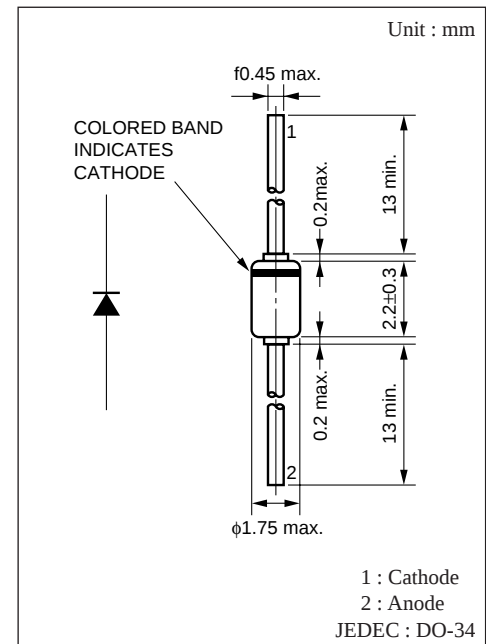
For temperature and reduced voltage compensation

■ Features

- High reliability achieved through combination of a planer type chip and glass sealing structure
- Easy mounting because of DO-34 (DHD) envelope used
- 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)	MA29-A/B	150	mA
	MA29W-A/B	100	
	MA29T-A/B	70	
	MA29Q-A/B	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	Condition	min	typ	max	Unit
Reverse current (DC)	MA29-A/B	I _R	V _R = 6V			10	μA
	MA29W-A/B		V _R = 6V			1	
	MA29T-A/W						
	MA29Q-A/B						
Forward voltage (DC)	MA29-A	V _{F1}	I _F =1.5mA	0.56		0.61	V
	MA29-B			0.59		0.64	
	MA29W-A/B		I _F =10μA	0.77			
	MA29T-A/B			1.15			
	MH29Q-A/B			1.60			
Forward voltage (DC)	MA29-A/B	V _{F2}	I _F = 50mA			1.1	V
	MH29W-A		1.18		1.28		
	MA29W-B		1.26		1.36		
	MA29T-A		1.76		1.92		
	MA29T-B		1.88		2.04		
	MA29Q-A		2.20		2.40		
	MA29Q-B		2.34		2.54		
Temperature coef- ficient of forward voltage	MA29-A/B	-ΔV _F / ΔT	I _F =1.5mA(T _j =25 to +150°C)		2.0		mV/°C
	MA29W-A/B			4.6			
	MA29T-A/B		I _F = 3mA(T _j =25 to +150°C)		6.5		
	MA29Q-A/B			8.8			

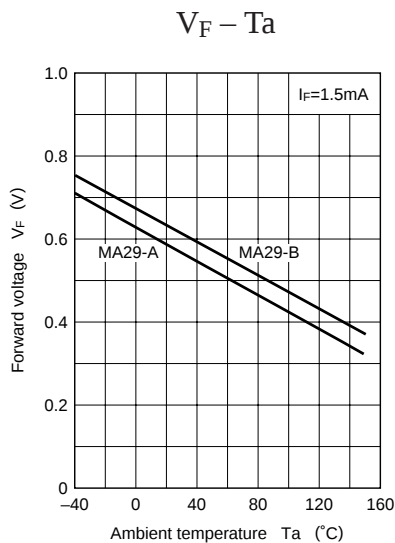
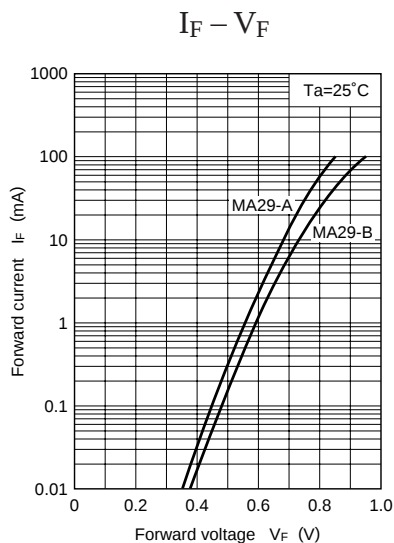
❖ Rated input/output frequency : 100MHz

■ Cathode Indication

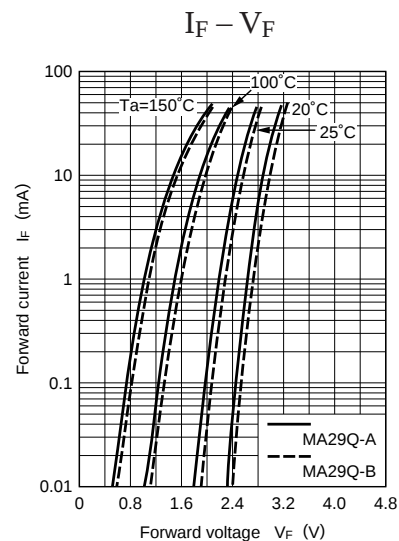
Type No.	MA29-A	MA29-B	MA29W-A	MA29W-B	MA29T-A*	MA29T-B*	MA29Q-A*	MA29Q-B*
Color	Red	Blue	Light Blue	Brown	Yellow	Blue	Green	Brown

* Body Color : Black

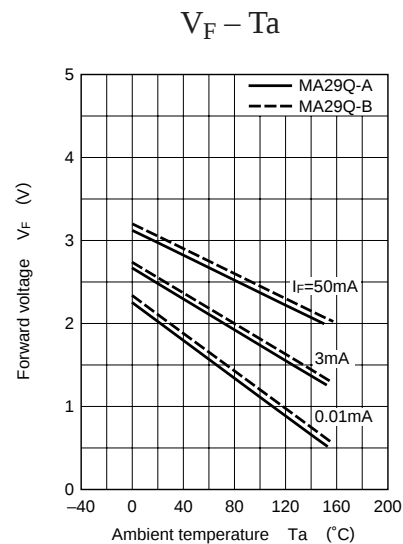
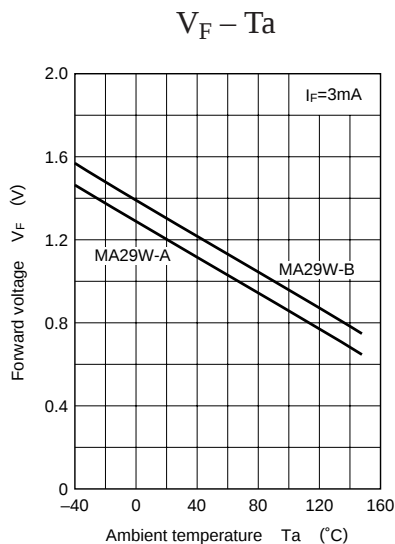
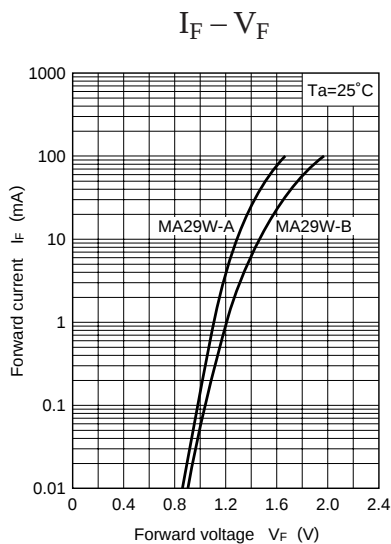
Common characteristics chart of MA29



Characteristics chart of MA29Q



Characteristics chart of MA29W



Characteristics chart of MA29T

