

MA29 Series

Silicon epitaxial planer type variable resistor

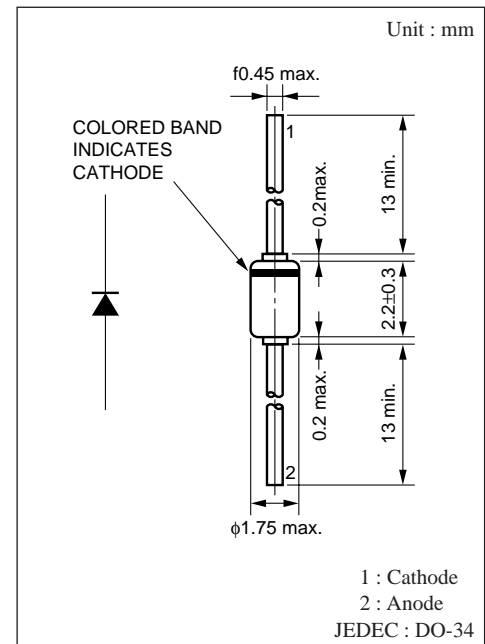
For temperature and reduced voltage compensation

■ 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	$V_R = 6\text{V}$			10	μA
	MA29W-A/B					
	MA29T-A/W	$V_R = 6\text{V}$			1	
	MA29Q-A/B					
Forward voltage (DC)	MA29-A	$I_F = 1.5\text{mA}$	0.56		0.61	V
	MA29-B		0.59		0.64	
	MA29W-A/B	$I_F = 10\mu\text{A}$	0.77			
	MA29T-A/B		1.15			
	MH29Q-A/B		1.60			
Forward voltage (DC)	MA29-A/B	$I_F = 3\text{mA}$			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 coefficient of forward voltage	MA29-A/B	$I_F = 1.5\text{mA}$ ($T_j = 25$ to $+150^\circ\text{C}$)		2.0		$\text{mV}/^\circ\text{C}$
	MA29W-A/B			4.6		
	MA29T-A/B	$I_F = 3\text{mA}$ ($T_j = 25$ to $+150^\circ\text{C}$)		6.5		
	MA29Q-A/B			8.8		

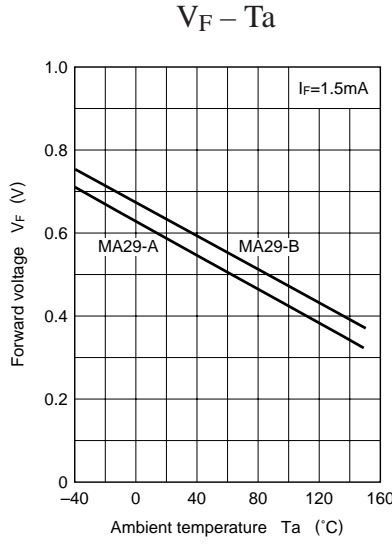
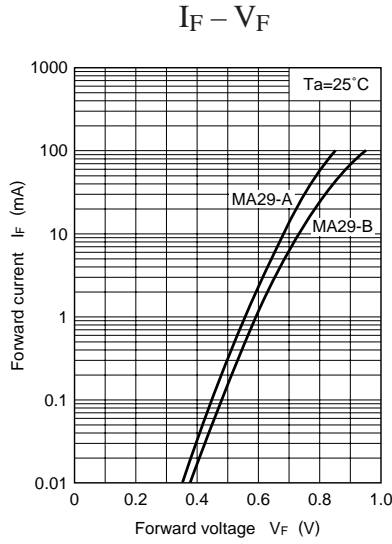
❖ Rated input/output frequency : 100MHz

■ Cathode Indication

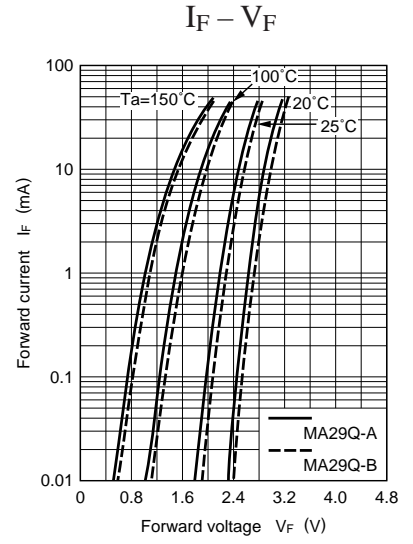
Type No.	MA29-A	MA29-B	MA29W-A	MA29W-B	MA29T-A*	MA29T-B*	MA29Q-A*	MA29Q-B*
Color	Red	Blue	Light Blue	Brown	Yellow	Blue	Green	Brown

* Body Color : Black

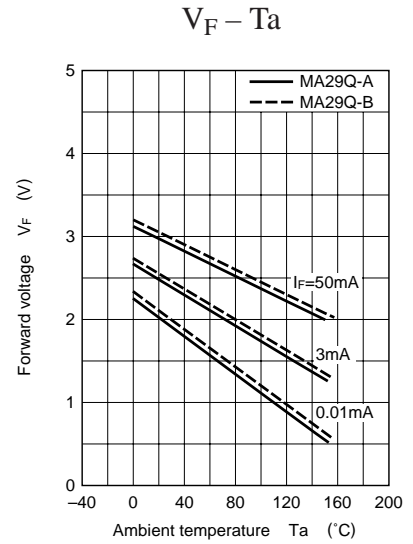
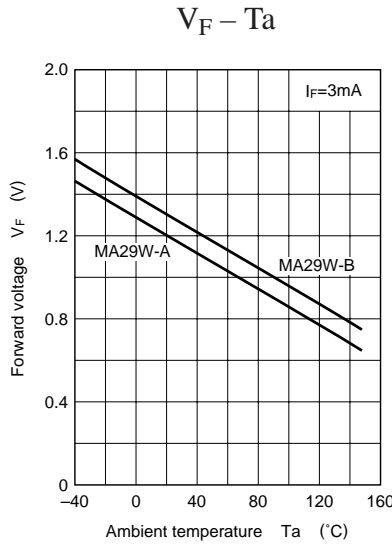
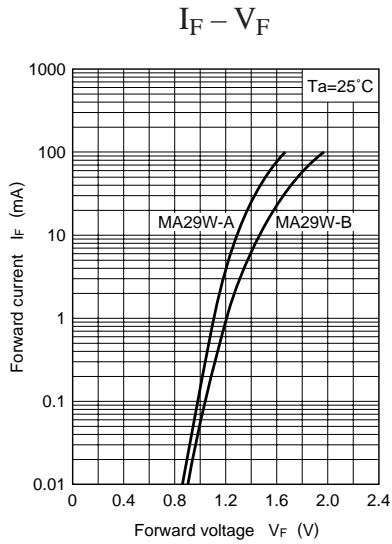
Common characteristics chart of MA29



Characteristics chart of MA29Q



Characteristics chart of MA29W



Characteristics chart of MA29T

