MA2C700, MA2C700A (MA700, MA700A)

Silicon epitaxial planar type

For wave detection

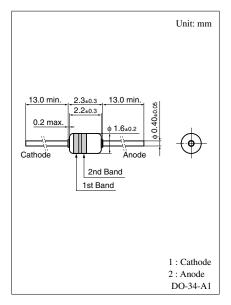
For super high speed switching

Features

- \bullet Low forward voltage V_F and good wave detection efficiency η
- · Small temperature coefficient of forward characteristic
- Small reverse current I_R
- High-density mounting (5 mm pitch insertion) is possible
- DO-34-A1(DHD) package

5 a						
Parameter		Symbol	Rating	Unit		
Reverse voltage (DC)	MA2C700	V _R	15	V		
	MA2C700A		30			
Peak reverse voltage	MA2C700	V _{RM}	15	V		
	MA2C700A		30			
Peak forward current		I_{FM}	150	mA		
Forward current (DC)		$I_{\rm F}$	30	mA		
Junction temperature		Tj	125	°C		
Storage temperature		T _{stg}	-55 to +125	°C		

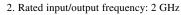
Absolute Maximum Ratings $T_a = 25^{\circ}C$



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

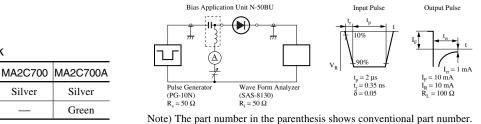
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	MA2C700	I _R	$V_R = 15 V$			100	nA
	MA2C700A		$V_R = 30 V$			150	
Forward voltage (DC)		V _{F1}	$I_F = 1 \text{ mA}$			0.4	V
		V _{F2}	$I_F = 30 \text{ mA}$			1	
Terminal capacitance		Ct	$V_R = 1 V, f = 1 MHz$		1.3		pF
Reverse recovery time *		t _{rr}	$I_F = I_R = 10 \text{ mA}$		1		ns
			$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
Detection efficiency		η	$V_{in} = 3 V_{(peak)}$, f = 30 MHz		60		%
			$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.



Silver

3. *: trr measuring instrument



Publication date: August 2001

1st Band

2nd Band

Cathode Mark

Type No.

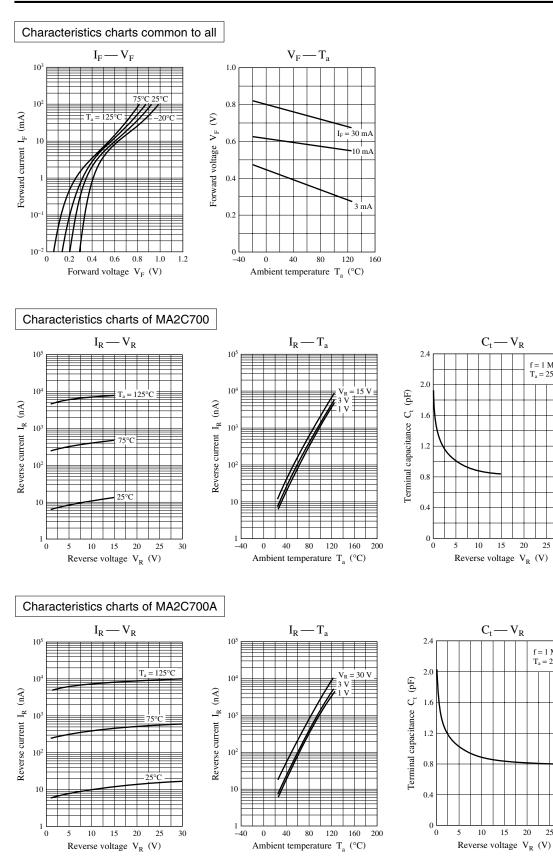
Color

 $\begin{array}{l} f=1 \ MHz \\ T_a=25^{\circ}C \end{array}$

20 25 30

> f = 1 MHz $T_a = 25^{\circ}C$

20 25 30



SKH00001AED

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