MA2C700, MA2C700A(MA700, MA700A)

Silicon epitaxial planar type

For ordinary wave detection

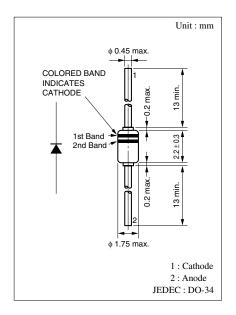
For super high speed switching

Features

- Low forward rise voltage (V_F) and satisfactory wave detection efficiency (η)
- Small temperature coefficient of forward characteristic
- Extremely low reverse current I_R
- DO-34(DHD) envelope, allowing to insert to a 5 mm pitch hole

■ Absolute Maximum Ratings T_a = 25°C

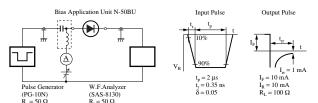
Parameter		Symbol	Rating	Unit
Reverse voltage	MA2C700	V_R	15	V
(DC)	MA2C700A		30	
Peak reverse	MA2C700	V_{RM}	15	V
voltage	MA2C700A		30	
Peak forward current		I_{FM}	150	mA
Forward current (DC)		I_F	30	mA
Junction temperature		T _j	125	°C
Storage temperature		T_{stg}	-55 to +125	°C



■ Electrical Characteristics $T_a = 25$ °C

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	MA2C700	I_R	$V_R = 15 \text{ V}$			100	nA
	MA2C700A		$V_R = 30 \text{ V}$			150	
Forward voltage (DC)		V_{F1}	$I_F = 1 \text{ mA}$			0.4	V
		V_{F2}	$I_F = 30 \text{ mA}$			1	V
Terminal capacitance		C _t	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$		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. Schottky barrier diode 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
 - 2. Rated input/output frequency: 2 000 MHz
 - 3. *: t_{rr} measuring instrument



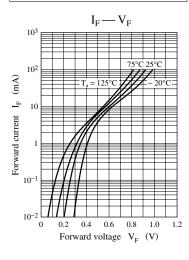
■ Cathode Indication

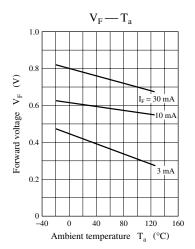
Type No.		MA2C700	MA2C700A		
Color	1st Band	Silver	Silver		
	2nd Band	_	Green		

Note) The part number in the parenthesis shows conventional part number.

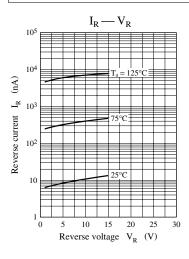
Panasonic 459

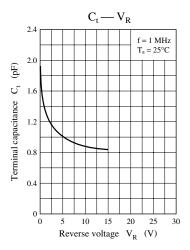
Common characteristics charts

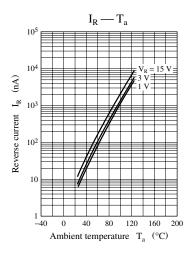




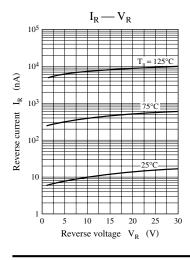
Characteristics charts of MA2C700

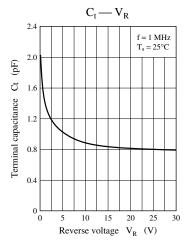


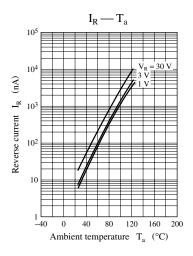




Characteristics charts of MA2C700A







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