MA2C178 (MA178), MA2C179 (MA179)

Silicon epitaxial planar type

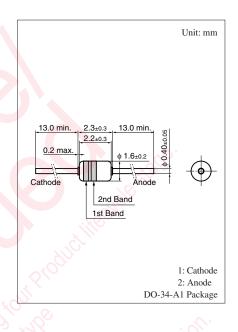
For high-speed switching circuits

■ Features

- Large repetitive peak forward current I_{FRM}
- Small terminal capacitance Ct

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage	MA2C178	V_R	40	V
	MA2C179		80	
Repetitive peak	MA2C178	V_{RRM}	40	V
reverse voltage	MA2C179		80	
Forward current (Average)		I _{F(AV)}	200	mA
Repetitive peak forward current		I_{FRM}	600	mA
Non-repetitive peak forward		I_{FSM}	1.0	A
surge current *				
Junction temperature		T _j	200	°C
Storage temperature		T_{stg}	-55 to +200	°C



Note) *: t = 1 s

■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

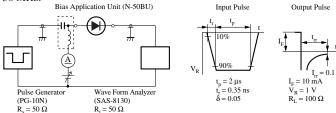
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage		V_{F}	$I_F = 200 \text{ mA}$	100	0,	1.1	V
Reverse current	MA2C178	I_{R1}	V _R = 15 V		0	50	nA
	MA2C179	S	I WE HIS THE	1.60			
	MA2C178	I_{R2}	V _R = 35 V			500	nA
	MA2C179		$V_R = 75 \text{ V}$			500	
	MA2C178	I_{R3}	$V_R = 35 \text{ V}, T_a = 150^{\circ}\text{C}$			100	μΑ
	MA2C179		$V_R = 75 \text{ V}, T_a = 150^{\circ}\text{C}$			100	
Terminal capacitance		C _t	$V_R = 0 V, f = 1 MHz$			4	pF
Reverse recovery time	*	t _{rr}	$I_F = 10 \text{ mA}, V_R = 1 \text{ V}$ $I_{rr} = 0.1 I_R, R_I = 100 \Omega$			20	ns

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 2. Absolute frequency of input and output is 50 MHz.
- 3. *: t_{rr} measurement circuit

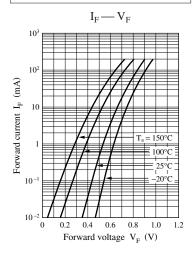
■ Cathode Indication

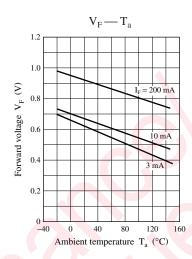
Type No.		MA2C178	MA2C179		
Color	1st Band	Violet	Violet		
	2nd Band	White	Green		

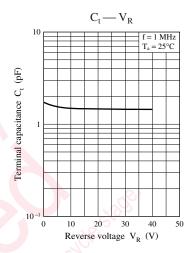


Note) The part numbers in the parenthesis show conventional part number.

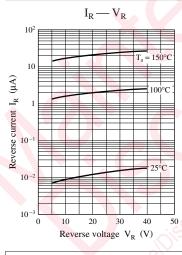
Common characteristics charts

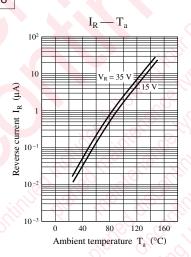




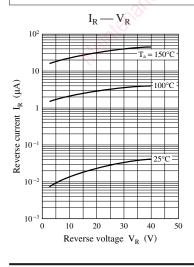


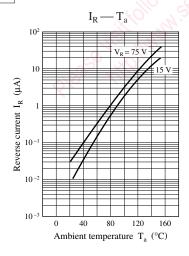
Characteristics charts of MA2C178





Characteristics charts of MA2C179





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