Panasonic

MA2C178 (MA178), MA2C179 (MA179)

Silicon epitaxial planar type

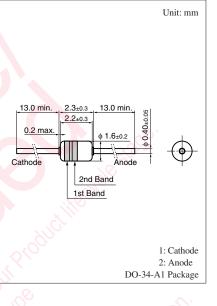
For high-speed switching circuits

Features

- \bullet Large repetitive peak forward current I_{FRM}
- Small terminal capacitance C_t

Absolute Maximum Ratings $T_a = 25^{\circ}C$						
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		Tj	200	°C		
Storage temperature		T _{stg}	-55 to +200	°C		
				5		

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



Note) *: t = 1 s

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

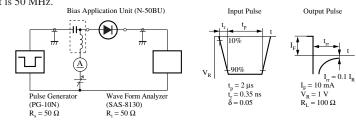
Parameter	r	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage		V _F	$I_{\rm F} = 200 \text{ mA}$	20	SOL	1.1	V
Reverse current	MA2C178	I _{R1}	V _R = 15 V		0-	50	nA
	MA2C179	S		20			
	MA2C178	I _{R2}	V _R = 35 V			500	nA
	MA2C179		V _R = 75 V			500	
	MA2C178	I _{R3}	$V_R = 35 V, T_a = 150^{\circ}C$	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

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

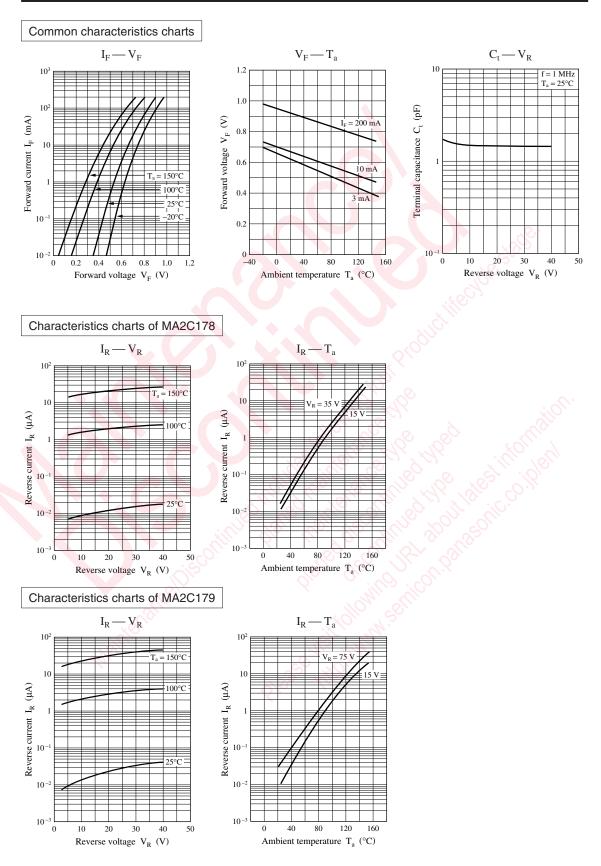
Cathode Indication

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



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

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