MA2B150, MA2B161, MA2B162, MA2B162A (MA150, MA161, MA162, MA162A)

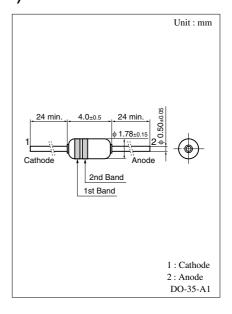
Silicon epitaxial planar type

For switching circuits

■ Features

- Short reverse recovery time t_{rr}
- Small terminal capacitance, C_t
- Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage	MA2B150	V _R	35	V
(DC)	MA2B161		50	
	MA2B162		75	
	MA2B162A		120	
Repetitive peak	MA2B150	V _{RRM}	35	V
reverse voltage	MA2B161		50	
	MA2B162		75	
	MA2B162A		120	
Average forward current		I _{F(AV)}	100	mA
Repetitive peak forward current		I _{FRM}	225	mA
Non-repetitive peak forward surge current*		I _{FSM}	500	mA
Junction temperature		T_{j}	200	°C
Storage temperature		T_{stg}	-55 to +150	°C



Note) * : t = 1 s

■ Electrical Characteristics $T_a = 25$ °C

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	DC) MA2B150 I		V _R = 15 V			0.025	μΑ
			$V_R = 30 \text{ V}$			0.1	
	MA2B161		V _R = 15 V			0.025	
			$V_R = 50 \text{ V}$			5	
	MA2B162		$V_R = 20 \text{ V}$		0.012	0.025	
			V _R = 75 V			5	
	MA2B162A		$V_R = 20 \text{ V}$		0.012	0.025	
			$V_R = 120 \text{ V}$			5	
	MA2B150		$V_R = 35 \text{ V}, T_a = 150^{\circ}\text{C}$			100	
	MA2B161		$V_R = 50 \text{ V}, T_a = 150^{\circ}\text{C}$			100	
	MA2B162		$V_R = 75 \text{ V}, T_a = 150^{\circ}\text{C}$		50	100	
	MA2B162A		$V_R = 75 \text{ V}, T_a = 150^{\circ}\text{C}$		50	100	
Forward voltage (DC)		V_F	$I_F = 100 \text{ mA}$		0.95	1.2	V
Reverse voltage (DC)	MA2B150	V_R	$I_R = 5 \mu A$	35			V
Terminal capacitance		C_{t}	$V_R = 0 V, f = 1 MHz$		0.9	2	pF
Reverse recovery time*	MA2B150	t _{rr}	$I_F = 10 \text{ mA}, V_R = 1 \text{ V}, R_L = 100 \Omega$			10	ns
	MA2B161/162/162A		Measure when $I_{rr} = 0.1 \cdot I_R$		2.2	4	1

■ Cathode Indication

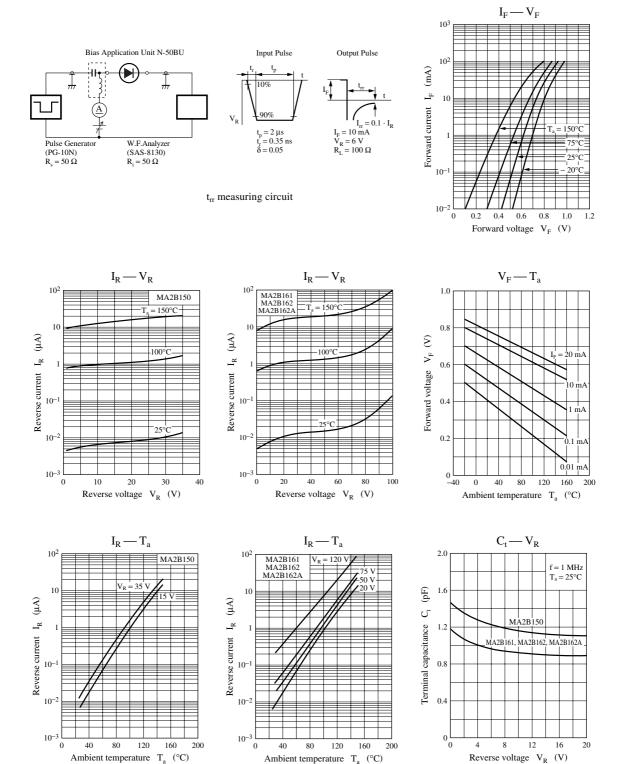
Туре	e No.	MA2B150	MA2B161	MA2B162	MA2B162A
Color	1st Band	White	Green	Violet	Black
	2nd Band				Black

Note) 1. Rated input/output frequency: 100 MHz

2. *: t_{rr} measuring circuit

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

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