

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 $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V _R	35	V
		50	
		75	
		120	
Repetitive peak reverse voltage	V _{RRM}	35	V
		50	
		75	
		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

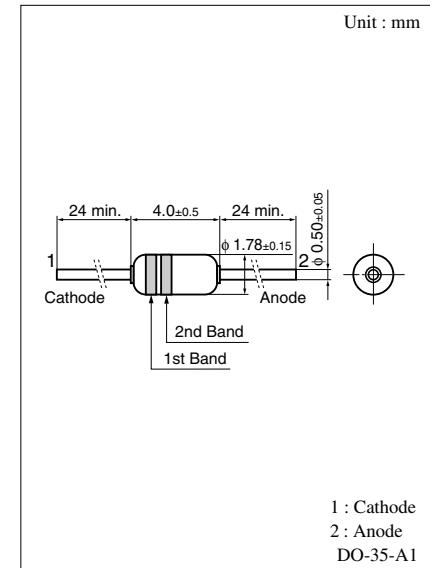
Note) * : $t = 1\text{ s}$

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I _R	$V_R = 15\text{ V}$			0.025	μA
		$V_R = 30\text{ V}$			0.1	
		$V_R = 15\text{ V}$			0.025	
		$V_R = 50\text{ V}$			5	
		$V_R = 20\text{ V}$		0.012	0.025	
		$V_R = 75\text{ V}$			5	
		$V_R = 20\text{ V}$		0.012	0.025	
		$V_R = 120\text{ V}$			5	
		$V_R = 35\text{ V}, T_a = 150^\circ\text{C}$			100	
		$V_R = 50\text{ V}, T_a = 150^\circ\text{C}$			100	
Forward voltage (DC)	V _F	$I_F = 100\text{ mA}$		0.95	1.2	V
		$I_F = 5\text{ μA}$	35			V
Terminal capacitance		C_t	$V_R = 0\text{ V}, f = 1\text{ MHz}$	0.9	2	pF
Reverse recovery time*	t _{rr}	$I_F = 10\text{ mA}, V_R = 1\text{ V}, R_L = 100\text{ Ω}$			10	ns
		Measure when $I_{rr} = 0.1 \cdot I_R$		2.2	4	

■ Cathode Indication

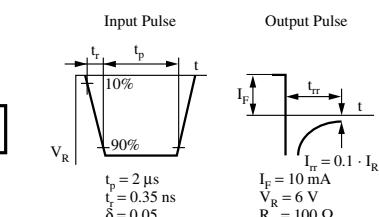
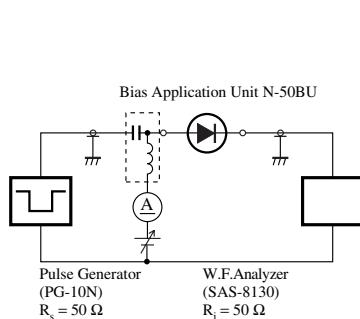
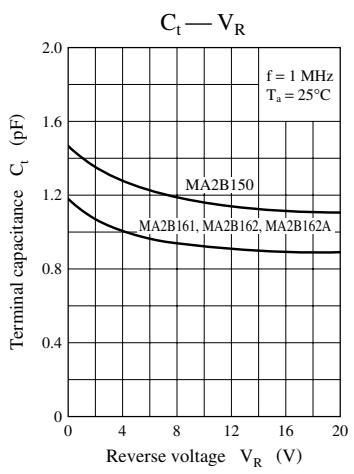
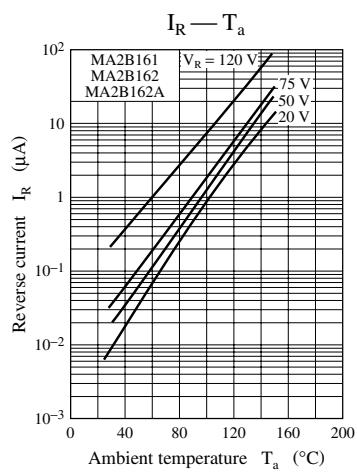
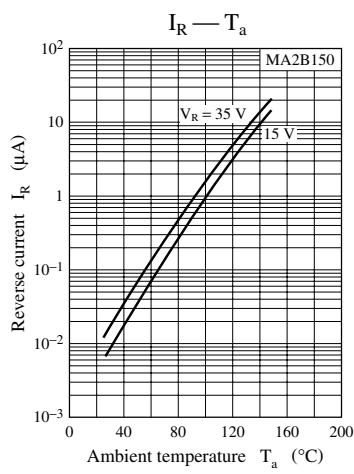
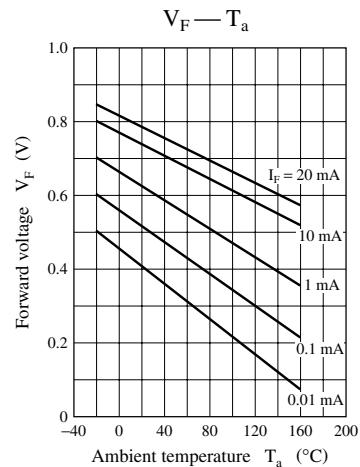
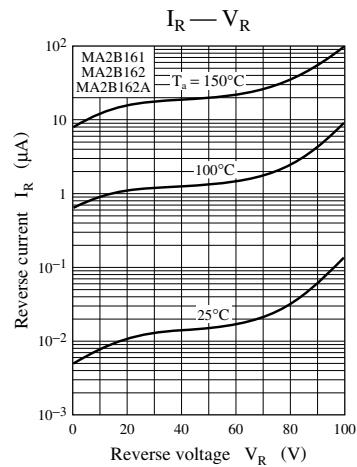
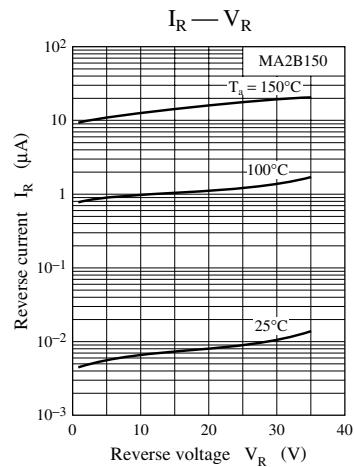
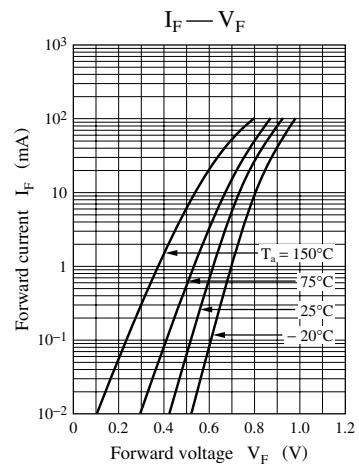
Type No.	MA2B150	MA2B161	MA2B162	MA2B162A
Color	1st Band	White	Green	Violet
	2nd Band	—	—	Black



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

2. * : t_{rr} measuring circuit

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

t_{tr} measuring circuit

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