

MA2B150 (MA150), MA2B162 (MA162)

Silicon epitaxial planar type

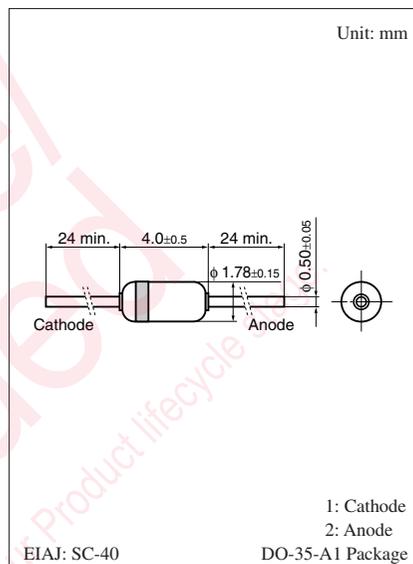
For switching circuits

■ 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	MA2B150	V_R	35	V
	MA2B162		75	
Repetitive peak reverse voltage	MA2B150	V_{RRM}	35	V
	MA2B162		75	
Forward current (Average)	$I_{F(AV)}$	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	$^\circ\text{C}$	
Storage temperature	T_{stg}	-55 to +200	$^\circ\text{C}$	



Note) *: $t = 1$ s

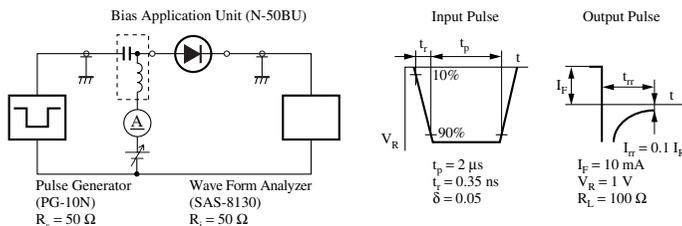
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	MA2B150	V_F $I_F = 100$ mA			1.2	V
	MA2B162			0.95	1.20	
Reverse voltage	MA2B150	V_R $I_R = 5$ μA	35			V
Reverse current	MA2B150	I_{R1} $V_R = 15$ V			25	nA
	MA2B162	$V_R = 20$ V		12	25	
	MA2B150	I_{R2} $V_R = 30$ V			100	nA
	MA2B162	$V_R = 75$ V			5	
	MA2B150	I_{R3} $V_R = 35$ V, $T_a = 150^\circ\text{C}$			100	μA
	MA2B162	$V_R = 75$ V, $T_a = 150^\circ\text{C}$		50	100	
Terminal capacitance	MA2B150	C_t $V_R = 0$ V, $f = 1$ MHz			2	pF
	MA2B162			0.9	2.0	
Reverse recovery time *	MA2B150	t_{rr} $I_F = 10$ mA, $V_R = 1$ V, $I_{rr} = 0.1 I_R$, $R_L = 100$ Ω			10	ns
	MA2B162			2.2	4.0	

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 100 MHz (MA2B150), 250MHz (MA2B162).

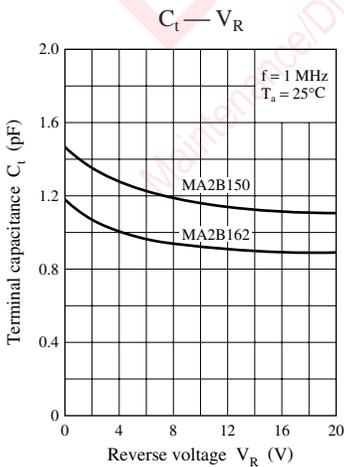
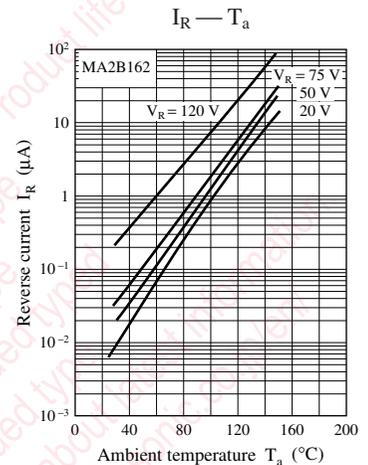
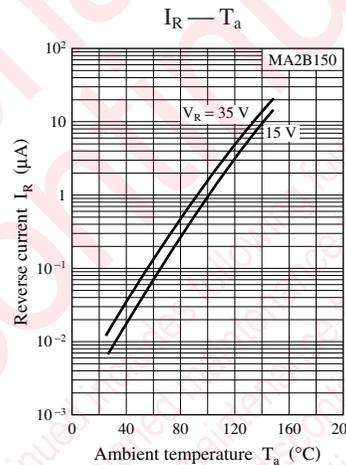
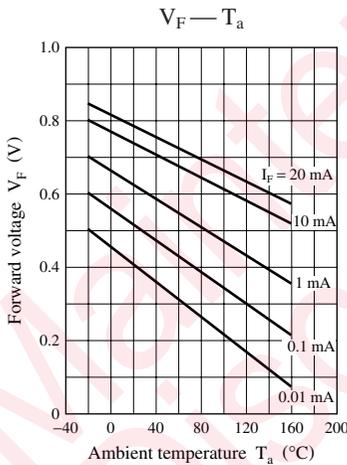
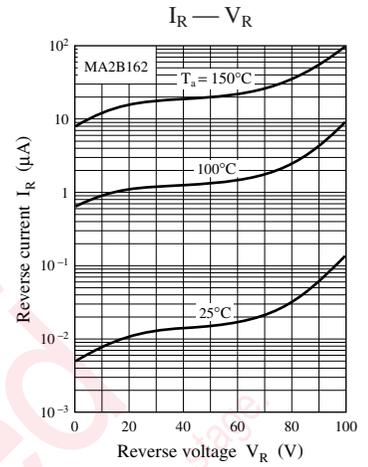
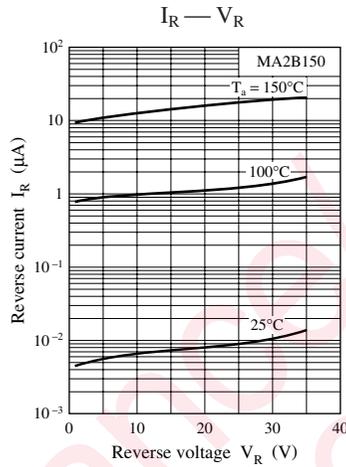
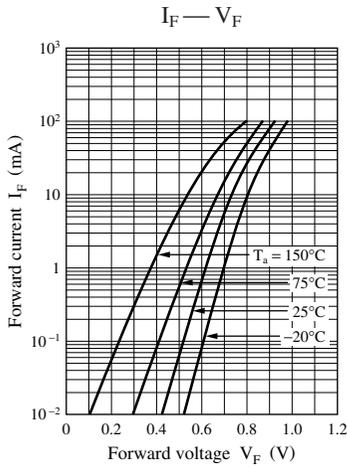
3. *: t_{rr} measurement circuit



■ Cathode Indication

Type No.	MA2B150	MA2B162
Color	White	Violet

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



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