

# MA2C195 (MA195)

Silicon epitaxial planar type

For switching circuits

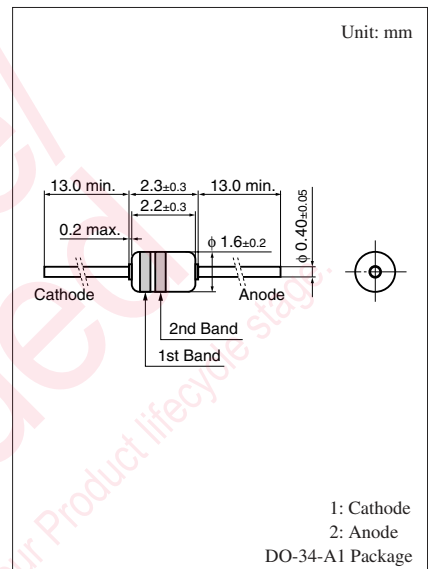
■ Features

- Low forward dynamic resistance  $r_f$
- Small terminal capacitance  $C_t$

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	35	V
Repetitive peak reverse voltage	$V_{RRM}$	35	V
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) \*:  $t = 1\text{ s}$



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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage	$V_R$	$I_R = 100\ \mu\text{A}$	35			V
Reverse current	$I_{R1}$	$V_R = 15\text{ V}$			5	nA
	$I_{R2}$	$V_R = 30\text{ V}$			10	nA
	$I_{R3}$	$V_R = 35\text{ V}, T_a = 150^\circ\text{C}$			100	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0\text{ V}, f = 1\text{ MHz}$			4	pF
Forward dynamic resistance	$r_f$	$I_F = 3\text{ mA}, f = 30\text{ MHz}$			2.5	$\Omega$
Reverse recovery time *	$t_{rr}$	$I_F = 10\text{ mA}, V_R = 1\text{ V}$ $I_{rr} = 0.1 I_R, R_L = 100\ \Omega$			0.20	ms

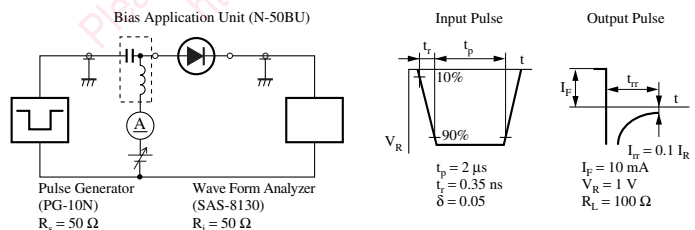
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 2.5 kHz.

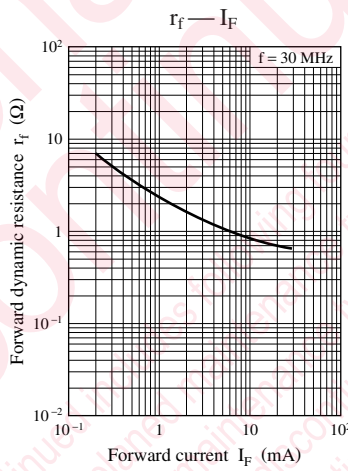
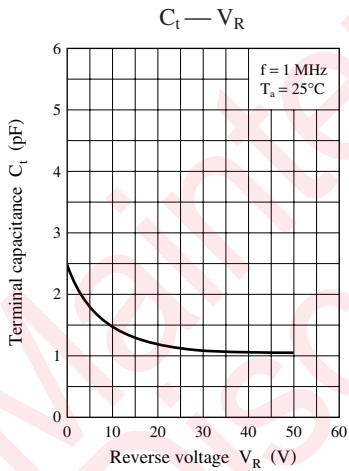
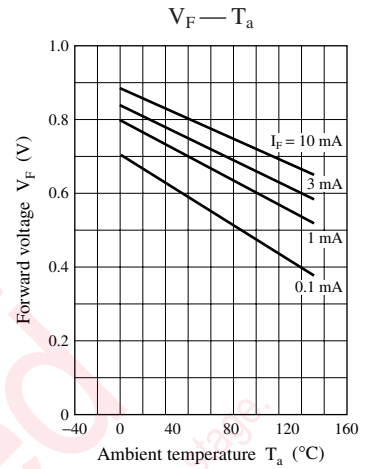
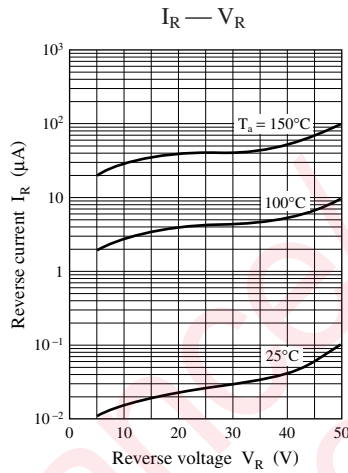
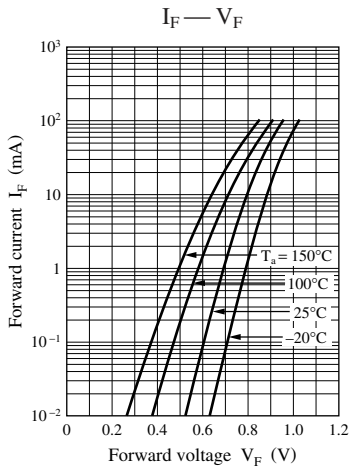
3. \*:  $t_{rr}$  measurement circuit

■ Cathode Indication

Type No.		
Color	1st Band	White
	2nd Band	White



Note) The part number in the parenthesis shows conventional part number.



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