MA2C195 (MA195)

Silicon epitaxial planar type

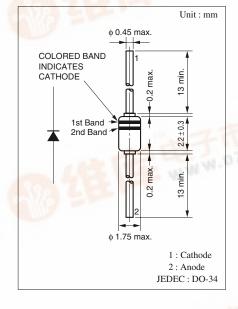
For switching circuits

■ Features

- Low forward dynamic resistance r_f
- Small terminal capacitance, Ct

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	35	V
Repetitive peak reverse voltage	V_{RRM}	35	V
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	Tj	200	°C
Storage temperature	T_{stg}	-55 to +200	°C



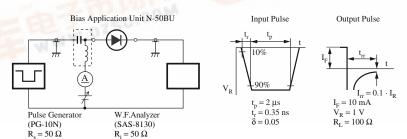
Note) * : t = 1 s

■ Electrical Characteristics $T_a = 25$ °C

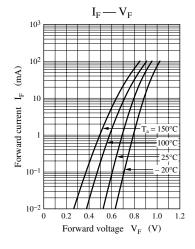
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _{R1}	$V_R = 15 \text{ V}$			0.005	μΑ
	I _{R2}	$V_R = 30 \text{ V}$			0.01	μΑ
	I_{R3}	$V_R = 35 \text{ V}, T_a = 150^{\circ}\text{C}$			100	μΑ
Forward voltage (DC)	$V_{\rm F}$	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage (DC)	V _R	$I_R = 100 \mu A$	35			V
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$			4	pF
Forward dynamic resistance	$r_{\rm f}$	$I_F = 3 \text{ mA}, f = 30 \text{ MHz}$			2.5	Ω
Reverse recovery time*	t _{rr}	$I_F = 10 \text{ mA}, V_R = 1 \text{ V}$			0.2	ms
		$I_{rr} = 0.1 \cdot I_{R}, R_{L} = 100 \Omega$				12.17

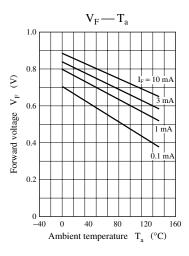
Note) 1. Rated input/output frequency: 2.5 kHz

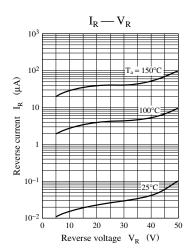
2. *: t_{rr} measuring circuit

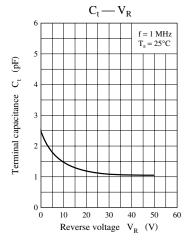


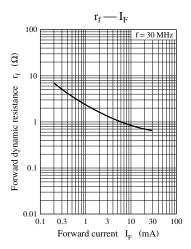
Cathode Indication











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