MA2C196 (MA196)

Silicon epitaxial planar type

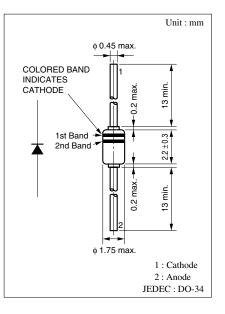
For switching circuits

Features

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

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

Parameter	Symbol	Rating	Unit
Forward voltage (DC)	V _R	50	V
Repetitive peak reverse voltage	V _{RRM}	50	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



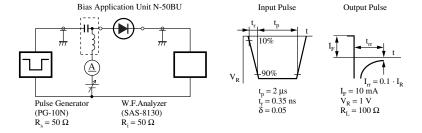
Note) * : t = l s

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _{R1}	V _R = 15 V			5	nA
	I _{R2}	$V_R = 50 V$			10	nA
	I _{R3}	$V_{\rm R} = 50 \text{ V}, \text{T}_{\rm a} = 150^{\circ} \text{C}$			100	μΑ
Forward voltage (DC)	V _F	I _F = 100 mA			1.2	V
Reverse voltage (DC)	V _R	$I_R = 100 \ \mu A$	50			V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			4	pF
Forward dynamic resistance	r _{f1}	$I_F = 3 \text{ mA}, f = 30 \text{ MHz}$			2.5	Ω
	r _{f2}	$I_{\rm F} = 3 \text{ mA}, f = 30 \text{ MHz}$			3.6	Ω
Reverse recovery time*	t _{rr}	$I_F = 10 \text{ mA}, V_R = 1 \text{ V}$			0.2	ms
		$I_{rr} = 0.1 \cdot I_R, R_L = 100 \ \Omega$				

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

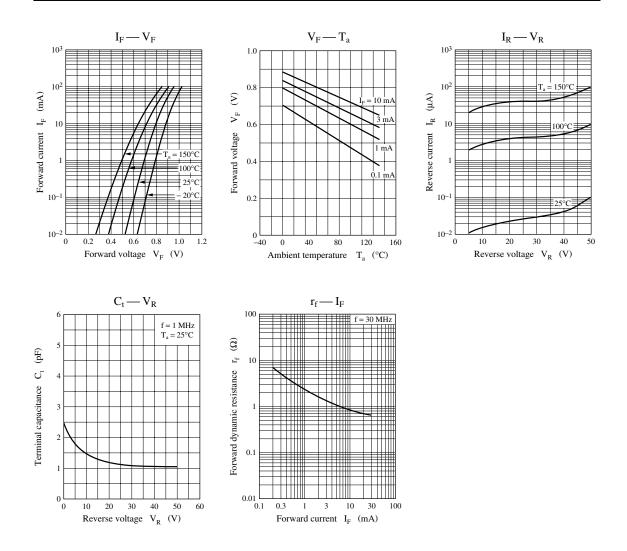
2. * : t_{rr} measuring circuit



Cathode Indication

Type No.		MA2C196
Color	1st Band	Green
	2nd Band	Green

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



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