

MA2C196

Silicon epitaxial planar type

For switching circuits

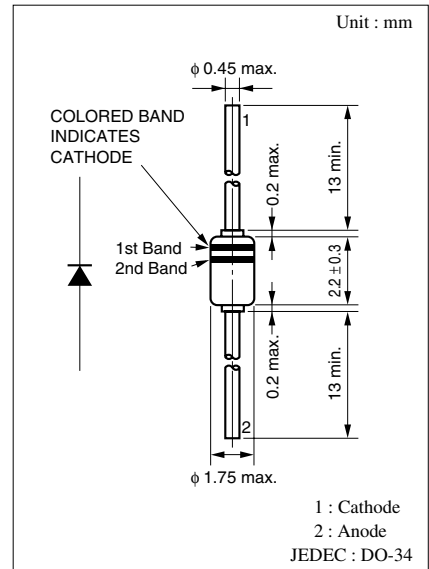
■ Features

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

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

Parameter	Symbol	Rating	Unit
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	T_j	200	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +200	$^\circ\text{C}$

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

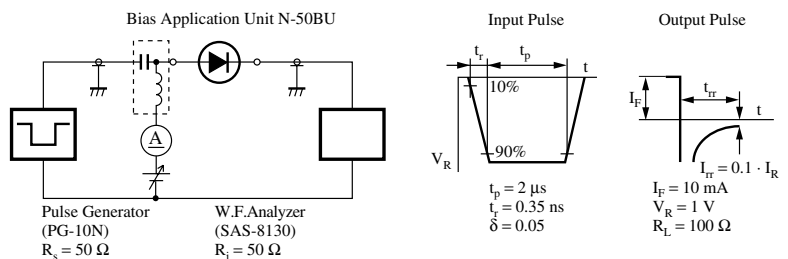


■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_{R1}	$V_R = 15\text{ V}$			5	nA
	I_{R2}	$V_R = 50\text{ V}$			10	nA
	I_{R3}	$V_R = 50\text{ V}, T_a = 150^\circ\text{C}$			100	μA
Forward voltage (DC)	V_F	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage (DC)	V_R	$I_R = 100\ \mu\text{A}$	50			V
Terminal capacitance	C_t	$V_R = 0\text{ V}, f = 1\text{ MHz}$			4	pF
Forward dynamic resistance	r_{f1}	$I_F = 3\text{ mA}, f = 30\text{ MHz}$			2.5	Ω
	r_{f2}	$I_F = 3\text{ mA}, f = 30\text{ MHz}$			3.6	Ω
Reverse recovery time*	t_{rr}	$I_F = 10\text{ mA}, V_R = 1\text{ V}$ $I_{tr} = 0.1 \cdot I_R, R_L = 100\ \Omega$			0.2	ms

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

