imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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MA2C195 (MA195)

Silicon epitaxial planar type

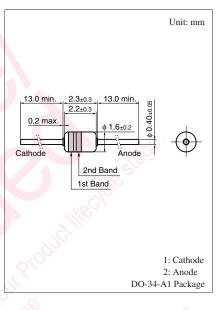
For switching circuits

Features

- \bullet Low forward dynamic resistance $r_{\rm f}$
- Small terminal capacitance C_t

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

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	Tj	200	°C
Storage temperature	T _{stg}	-55 to +200	°C



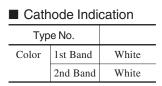
Note) *: t = 1 s

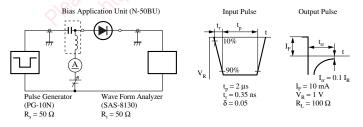
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

	u					
Parameter	Symbol	Conditions	Min	Тур	Max	ິ ^ງ Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$	18, 1	Xer	1.2	V
Reverse voltage	V _R	$I_R = 100 \ \mu A$	35	2.		V
Reverse current	I _{R1}	V _R = 15 V	00	SOL	5	nA
	I _{R2}	V _R = 30 V	2	0	10	
	I _{R3}	$V_{\rm R} = 35 \text{ V}, \text{ T}_{\rm a} = 150^{\circ} \text{C}$	20		100	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			4	pF
Forward dynamic resistance	r _f	$I_F = 3 \text{ mA}, f = 30 \text{ MHz}$			2.5	Ω
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 1 \text{ V}$			0.20	ms
		$I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$				

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

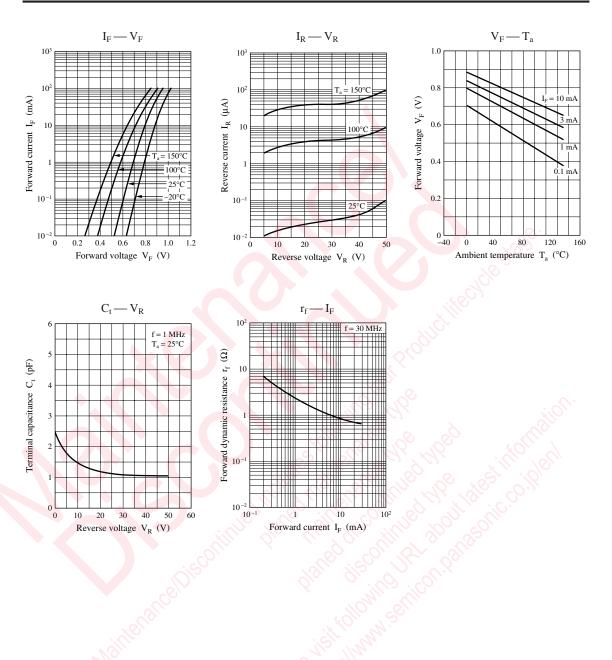
- 2. Absolute frequency of input and output is 2.5 kHz.
- 3. *: t_{rr} measurement circuit





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

Panasonic



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