# imall

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## Contact us

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#### **Switching Diodes**

## Panasonic

## MA3X199 (MA199)

### Silicon epitaxial planar type

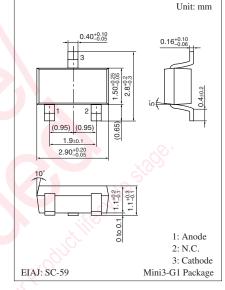
For high voltage switching circuit

#### Features

- High breakdown voltage:  $V_R = 200 V$
- $\bullet$  Short reverse recovery time  $t_{\rm rr}$
- Automatic mounting is possible

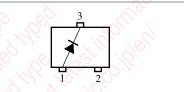
Absolute Maximum Ratings $T_a = 25^{\circ}C$							
Parameter	Symbol	Rating	Unit				
Reverse voltage	V <sub>R</sub>	200	V				
Repetitive peak reverse voltage	V <sub>RRM</sub>	250	v				
Forward current (Average)	I <sub>F(AV)</sub>	100	mA				
Repetitive peak forward current	I <sub>FRM</sub>	225	mA				
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	500	mA				
Junction temperature	Tj	150	°C				
Storage temperature	T <sub>stg</sub>	-55 to +150	°C				

#### Note) \*: t = 1 s



#### Marking Symbol: M3A

#### Internal Connection



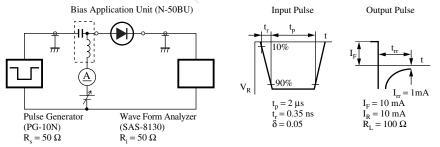
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	$I_{\rm F} = 100 \text{ mA}$	$\mathcal{Q}_{\mathbf{Q}}$		1.2	V
Reverse current	I <sub>R</sub>	$V_{\rm R} = 200  {\rm V}$			1.0	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			3.0	pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}$			60	ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				

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

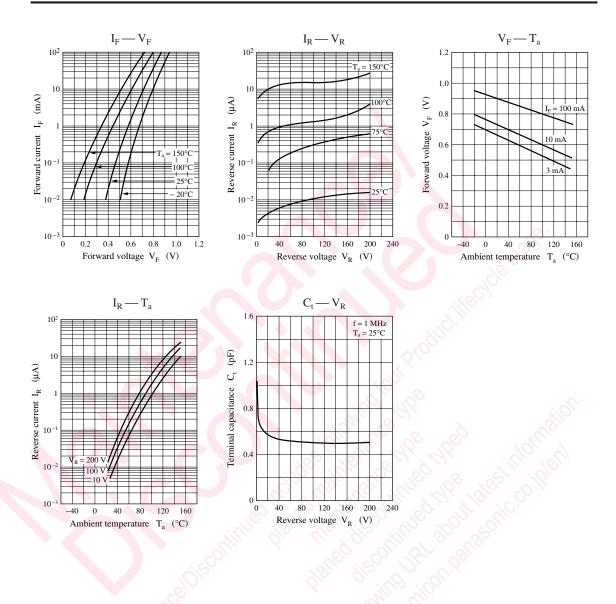
2. Absolute frequency of input and output is 20 MHz.





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

### **Panasonic**



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