# MA3X153 (MA153), MA3X153A (MA153A)

## Silicon epitaxial planar type

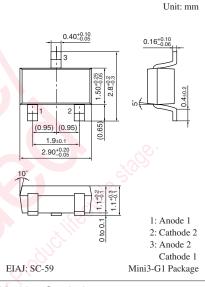
For switching circuits

#### Features

- Small terminal capacitance C<sub>t</sub>
- Two diodes are connected in series in the package

Absolute Maximum Ratings $T_a = 25^{\circ}C$							
Parameter		Symbol	Rating	Unit			
Reverse voltage	MA3X153	V <sub>R</sub>	40	V			
	MA3X153A		80				
Maximum peak	MA3X153	V <sub>RM</sub>	40	V			
reverse voltage	MA3X153A		80				
Forward current	Single	I <sub>F</sub>	100	mA			
	Series		65				
Peak forward	Single	I <sub>FM</sub>	200	mA			
current	Series		130				
Junction temperature		Tj	150	°C			
Storage temperature		T <sub>stg</sub>	-55 to +150	°C			

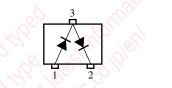




Marking Symbol • MA3X153: MC

### • MA3X153A: MP

Internal Connection

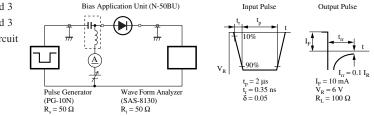


#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter		Symbol	Conditions	Min	Тур	Мах	Unit
Forward voltage		VF	$I_F = 100 \text{ mA}$	00		1.2	V
Reverse voltage	MA3X153	V <sub>R</sub>	$I_R = 100 \mu A$	40			V
	MA3X153A		A MILLS CIC	80			
Reverse current	MA3X153	I <sub>R</sub>	V <sub>R</sub> = 40 V			100	nA
	MA3X153A		V <sub>R</sub> = 75 V			100	
Terminal capacitance		Ct	$V_R = 0 V, f = 1 MHz$			5.0	pF
Reverse recovery time	*3	t <sub>rr</sub> *1	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$		150		ns
		t <sub>rr</sub> *2	$I_{rr} = 0.1 I_R, R_L = 100 \Omega$		9		ns

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

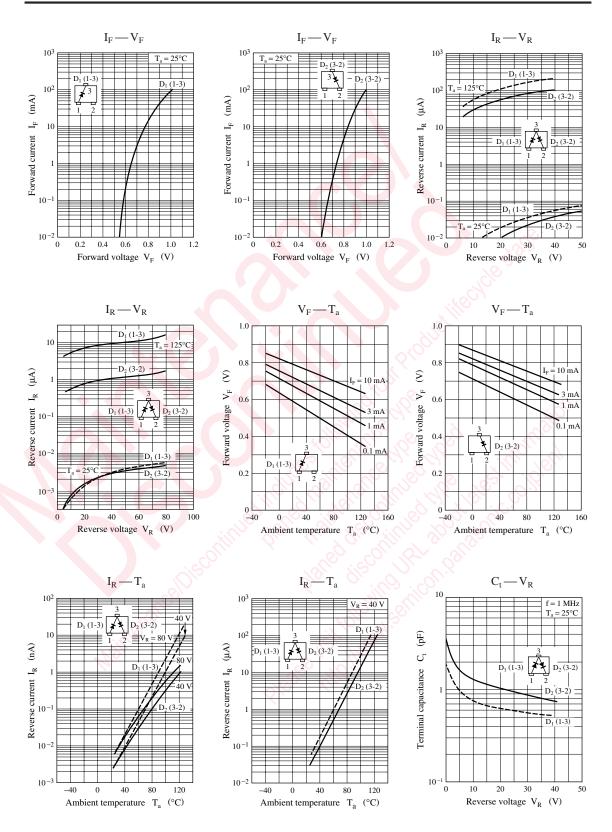
- 2. Absolute frequency of input and output is 100 MHz.
- 3. \*1: Between pins 2 and 3
  - \*2: Between pins 1 and 3 \*3: trr measurement circuit



Note) The part numbers in the parenthesis show conventional part number.

# $\label{eq:main_constraint} This product complies with the RoHS Directive (EU 2002/95/EC). \\ MA3X153, MA3X153A$

## **Panasonic**



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