# 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.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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### Panasonic

# MA3X704D (MA704WA), MA3X704E (MA704WK)

### Silicon epitaxial planar type

For switching

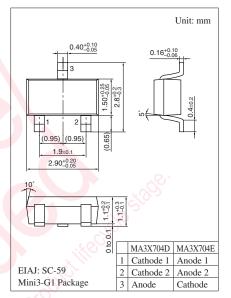
For wave detection

#### Features

- Two MA3X704A (MA704A) is contained in one package
- Low forward voltage  $V_F$  and good wave detection efficiency  $\eta$
- Small temperature coefficient of forward characteristic
- Small reverse current I<sub>R</sub>

<b>5</b> "						
Parameter		Symbol	Rating	Unit		
Reverse voltage		V <sub>R</sub>	30	V		
Maximum peak reverse voltage		V <sub>RM</sub>	30	V		
Peak forward current	Single	I <sub>FM</sub>	150	mA		
	Double		110			
Forward current	Single	I <sub>F</sub>	30	mA		
	Double		20			
Junction temperature		Tj	125	°C		
Storage temperature		T <sub>stg</sub>	-55 to +125	C C		

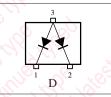
#### Absolute Maximum Ratings $T_a = 25^{\circ}C$



#### Marking Symbol

• MA3X704D: M2P • MA3X704E: M2R

#### Internal Connection



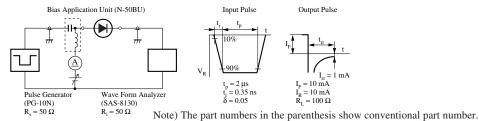


#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

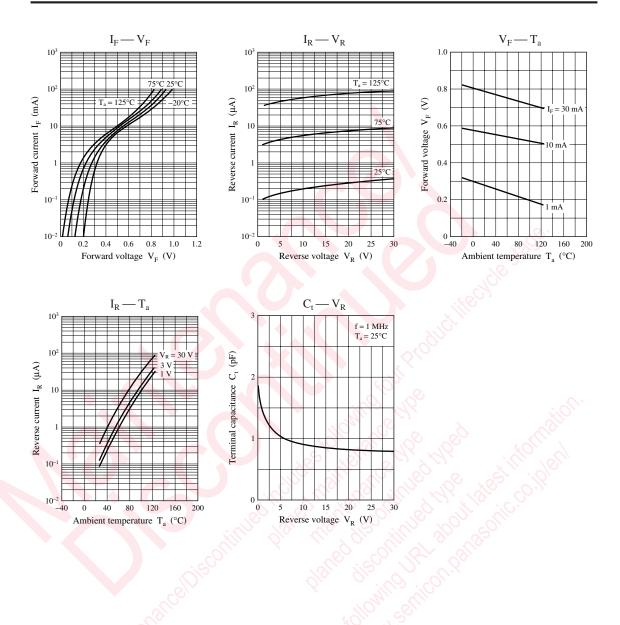
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_F = 1 \text{ mA}$		5	0.4	V
	V <sub>F2</sub>	$I_F = 30 \text{ mA}$	00		1.0	
Reverse current	I <sub>R</sub>	$V_R = 30 V$			1	μΑ
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}$		1.0		ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}, f = 30 MHz$		65		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes. 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body

- and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 2 GHz.
- 4. \*: t<sub>rr</sub> measurement circuit



### **Panasonic**



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