# 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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## MA2J7320G

### Silicon epitaxial planar type

#### For switching

For wave detection

#### Features

- Low forward voltage V<sub>F</sub>, optimum for low voltage rectification
- Low V<sub>F</sub> type of MA3X704A
- Optimum for high frequency rectification because of its short reverse recovery time t<sub>rr</sub>
- Package
- Code
- SMini2-F3
- Pin Name
  - 1: Anode 2: Cathode
  - 2: Cathode
- Marking Symbol: 2C

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

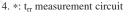
Parameter	Symbol	Rating	Unit
Reverse voltage	VR	30	V
Maximum peak reverse voltage	V <sub>RM</sub>	30	V
Forward current	I <sub>F</sub>	30	mA
Peak forward current	I <sub>FM</sub>	150	mA
Junction temperature	Tj	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C

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

			-			
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_F = 1 \text{ mA}$	. K	in the	0.3	V
	V <sub>F2</sub>	$I_F = 30 \text{ mA}$	or.	ol.	1.0	
Reverse current	IR	$V_R = 30 V$		5	30	μΑ
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$	00.	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		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

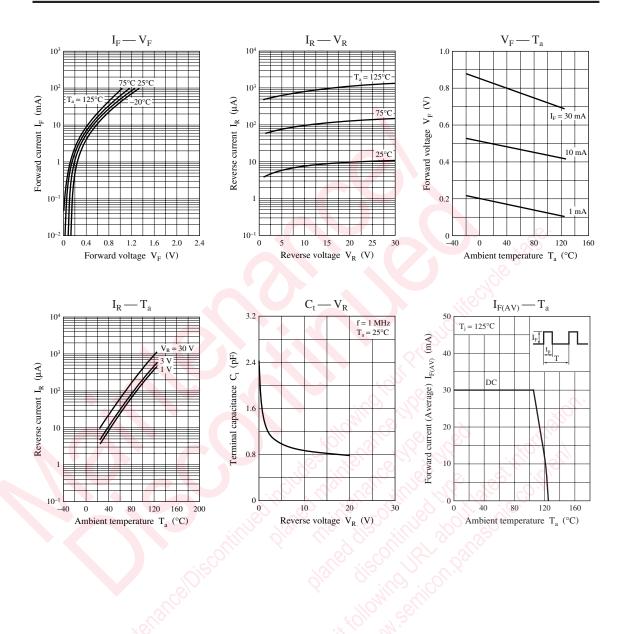
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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.



Bias Application Unit (N-50BU) Input Pulse Output Pulse ୷ 90% 1 mA $= 2 \mu s$  $I_{r} = 10 \text{ mA}$ = 0.35 ns= 10 mAPulse Generator Wave Form Analyzer = 0.05 $= 100 \Omega$ (PG-10N) (SAS-8130)  $R_s = 50 \Omega$  $R_i = 50 \Omega$ 

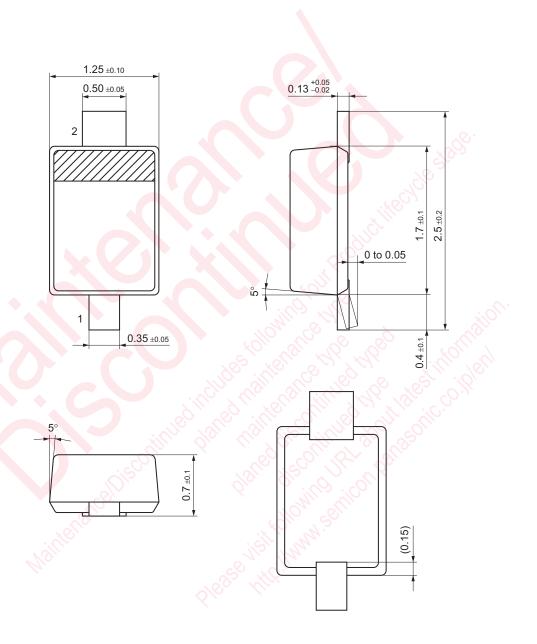
### Panasonic



## Panasonic

## SMini2-F3

Unit: mm



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