### Panason

# MA3J741DG, MA3J741EG

#### Silicon epitaxial planar type

For high speed switching

For wave detection

#### Features

- Two MA3J7410G is contained in one package
- Low forward voltage  $V_{\rm F}$  and good wave detection efficiency  $\eta$
- Small temperature coefficient of forward characteristic
- Small reverse current I<sub>R</sub>

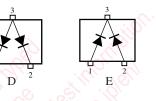
Absolute Maximum Hatings 1 <sub>a</sub> = 25 C								
Parameter		Symbol	Rating	Unit				
Reverse voltage		V <sub>R</sub>	30	V				
Maximum peak reverse voltage		V <sub>RM</sub>	30	V				
Forward current	Single	I <sub>F</sub>	30	mA				
	Double		20					
Peak forward current	Single	I <sub>FM</sub>	150	mA				
	Double		110	101				
Junction temperature		Tj	125	°C				
Storage temperature		T <sub>stg</sub>	-55 to +125	C VO				

#### Absolute Maximum Batings $T_{e} = 25^{\circ}C$

#### Package

- Code
- SMini3-F2
- Pin Name
- MA3J741DG MA3J741EG
- 1: Cathode 1
- 1: Anode 1
- 2: Cathode 2 3: Anode
- 2: Anode 2 3: Cathode
- Marking Symbol MA3J741DG: M2P MA3J741EG: M2R

Internal Connection

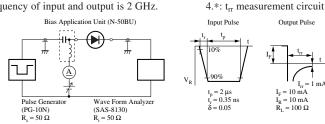


#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_F = 1 \text{ mA}$	00.		0.4	V
	V <sub>F2</sub>	$I_F = 30 \text{ mA}$			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
13.		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}$ , $f = 30 \text{ MHz}$		65		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

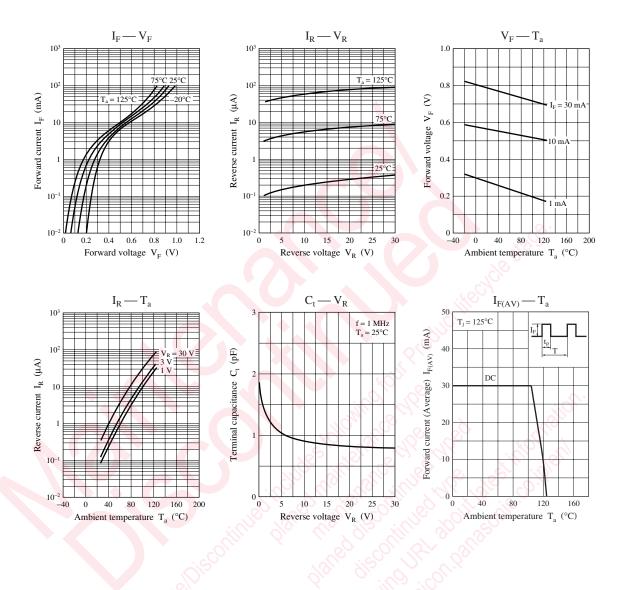
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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.



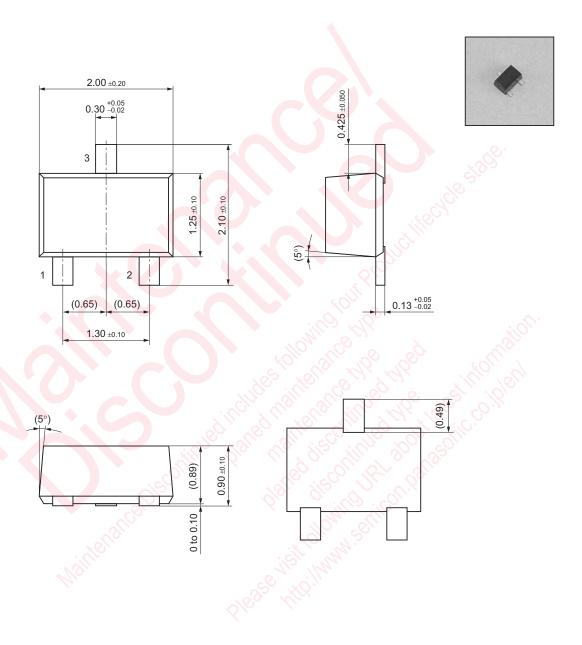
## This product complies with the RoHS Directive (EU 2002/95/EC). MA3J741DG, MA3J741EG

## Panasonic



## SMini3-F2

Unit: mm



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