

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!



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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_F and good wave detection efficiency η
- Small temperature coefficient of forward characteristic
- Small reverse current I_R

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	30	V
Maximum peak reverse voltage		V _{RM}	30	V
Forward current	Single	I_{F}	30	mA
	Double		20	
Peak forward current	Single	I_{FM}	150	mA
	Double		110	11011
Junction temperature		T_{j}	125	°C
Storage temperature		T _{stg}	-55 to +125	C C

Package

- Code
 - SMini3-F2
- Pin Name

MA3J741DG MA3J741EG
1: Cathode 1 1: Anode 1
2: Cathode 2 2: Anode 2
3: Anode 3: Cathode

■ Marking Symbol

MA3J741DG: M2P MA3J741EG: M2R

Internal Connection

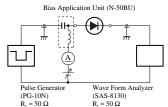




■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

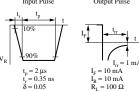
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$	0,0,		0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$			1	μΑ
Terminal capacitance	C _t	$V_R = 1 \text{ V, f} = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		1.0		ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}$, $f = 30 MHz$		65		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

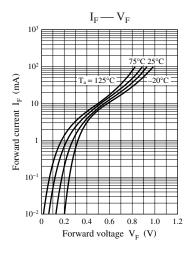
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. Absolute frequency of input and output is 2 GHz.

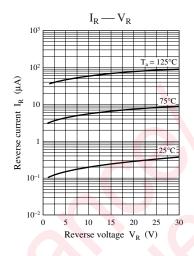


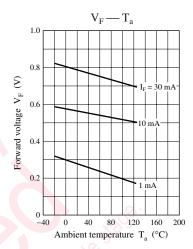
4.*: t_{rr} measurement circuit

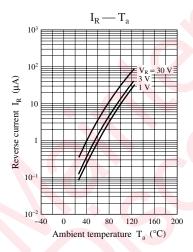
Input Pulse Output Pulse

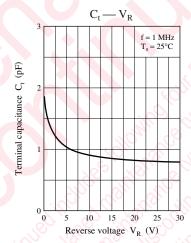


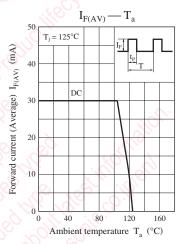






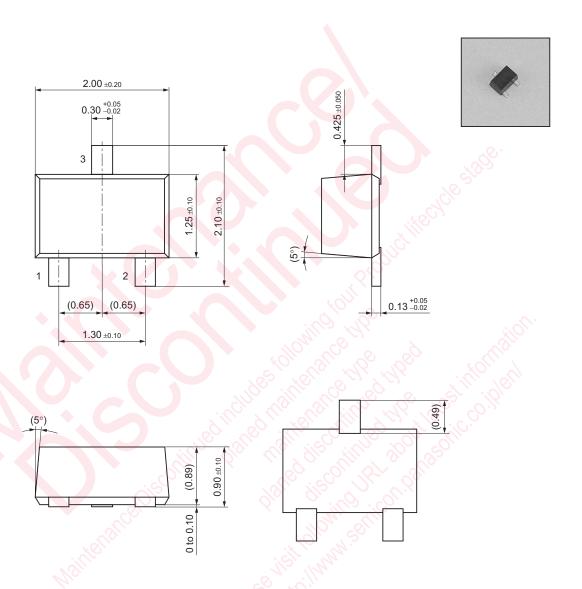






2 SKH00195AED

SMini3-F2 Unit: mm



SKH00195AED 3

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