MA3J741D (MA741WA), **MA3J741E** (MA741WK)

Silicon epitaxial planar type

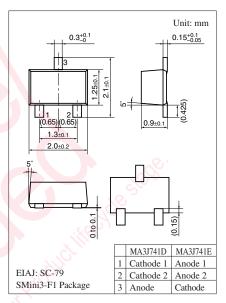
For switching

■ Features

- Two MA3J741 (MA741) is contained in one package
- \bullet 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

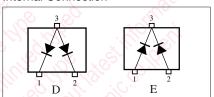
Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	30	V
Maximum peak reverse voltage		V _{RM}	30	V
Forward current	Single	I_{F}	30	mA
	Double		20	
Peak forward current	Single	I_{FM}	150	mA
	Double		110	
Junction temperature		T _j	125	°C
Storage temperature		T_{stg}	-55 to +125	°C



Marking Symbol

 MA3J741D: M2P MA3J741E: M2R

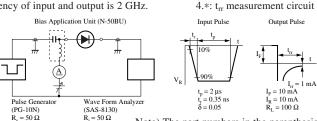
Internal Connection



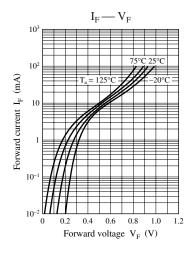
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

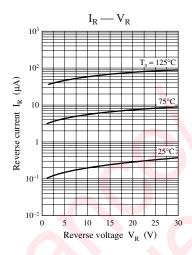
Parameter	Symbol	Conditions Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$		0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$		1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$		1	μΑ
Terminal capacitance	C _t	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$	1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10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

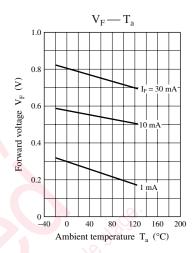
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.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

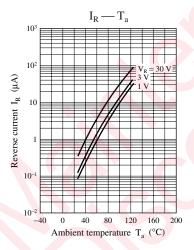


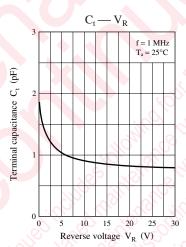
Note) The part numbers in the parenthesis show conventional part number.











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