MA3J741D, MA3J741E (MA741WA, MA741WK)

Silicon epitaxial planar type

For switching circuits

Features

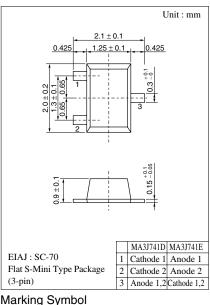
- Two MA3J741s are contained in one package (S-mini type 3-pin)
- \bullet Low forward rise voltage (V_F) and satisfactory wave detection efficiency (η)
- Small temperature coefficient of forward characteristic
- Extremely low reverse current I_R

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

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V _R	30	V
Peak reverse voltage		V _{RM}	30	V
Forward current	Single	I _F	30	mA
(DC)	Double*		20	
Peak forward	Single	I _{FM}	150	mA
current	Double*		110	
Junction temperature		Tj	125	°C
Storage temperature		T _{stg}	-55 to +125	°C

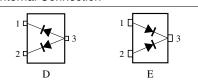
Note) * : Value per hcip

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



- MA3J741D : M2P
- MA3J741D : M21

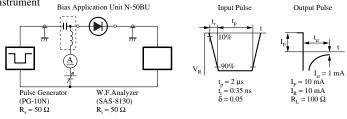
Internal Connection



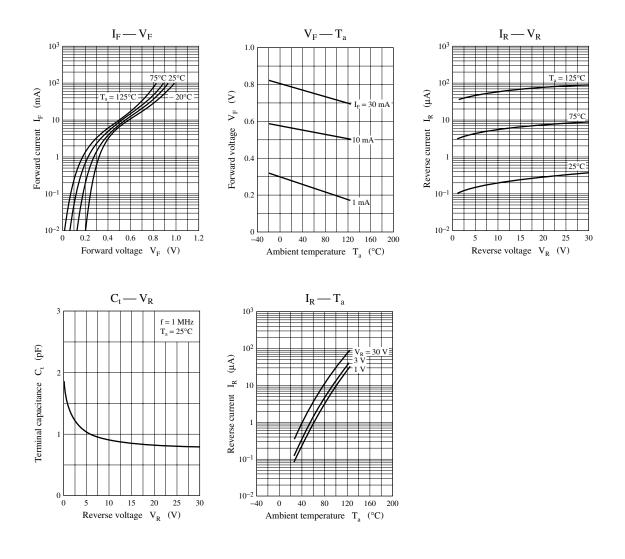
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	IR	$V_R = 30 V$			1	μA
Forward voltage (DC)	V _{F1}	$I_F = 1 \text{ mA}$			0.4	V
	V _{F2}	$I_F = 30 \text{ mA}$			1	V
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time*	t _{rr}	$I_F = I_R = 10 \text{ mA}$		1		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. Schottky barrier diode 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.

- 2. Rated input/output frequency: 2 000 MHz
- 3. *: t_{rr} measuring instrument _{Bias} Appli



Note) The part number in the parenthesis shows conventional part number.



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