MA4X713 (MA713)

Silicon epitaxial planar type

For switching

For wave detection

Features

- Two isolated elements are contained in one package, allowing high-density mounting
- Two MA3X704A (MA704A) is contained in one package (of a type in the same direction)
- Forward voltage V_F, optimum for low voltage rectification
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

■ Absolute Maximum Ratings $T_a = 25$ °C

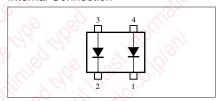
Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	30	V
Maximum peak reverse voltage		V _{RM}	30	V
Peak forward	Single	I_{FM}	150	mA
current	Double *		110	
Forward current	Single	I_{F}	30	mA
	Double *		20	40/10
Junction temperature		T _j	125	C C
Storage temperature		T _{stg}	-55 to +125	°C

Note) *: Value of each diode in double diodes used.

Unit: mm $2.90^{+0.02}_{-0.05}$ 1.9±0.2 (0.95)(0.95).50+0.25 0.60+0.10 0.4 ± 0.2 1: Cathode 1 2: Cathode 2 3: Anode 2 4: Anode 1 EIAJ: SC-61 Mini4-G1 Package

Marking Symbol: M1N

Internal Connection



1

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

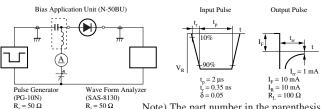
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$	7.0 ₀ .		0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$			1	μΑ
Terminal capacitance	C _t	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		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.
 - 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.

4. *: t_{rr} measurement circuit

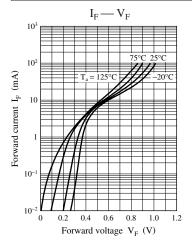
3. Absolute frequency of input and output is 2 GHz.

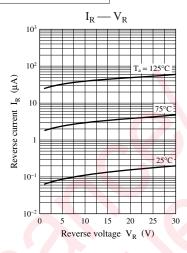
Publication date: April 2004

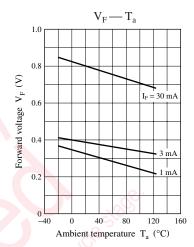


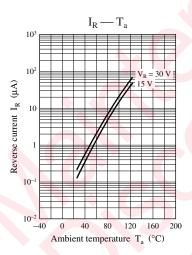
Note) The part number in the parenthesis shows conventional part number. SKH00103BED

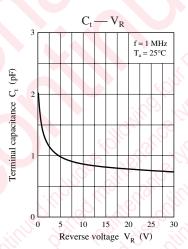
Characteristics charts between pins 1 and 4, 2 and 3











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