imall

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.

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Contact us

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MA4Z713 (MA4S713)

Silicon epitaxial planar type

For switching

For wave detection

Features

- Two isolated elements are contained in one package, allowing high-density mounting
- 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 $T_a = 25^{\circ}C$ Symbol Parameter Rating Unit 30 V Reverse voltage V_R V Maximum peak reverse voltage V_{RM} 30 Peak forward Single 150 I_{FM} mA current Double 110 Forward current Single I_{F} 30 mΑ Double * 20 Junction temperature T_i 125 °C T_{stg} -55 to +125 °C Storage temperature

- Package Code
- SMini4-F1 Pin Name

2: Anode 2

- 1: Anode 1
- 3: Cathode 2 4: Cathode 1
- Marking Symbol: M1N
- Internal Connection



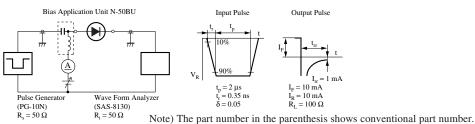
Note) *: Value of each diode in double diodes used.

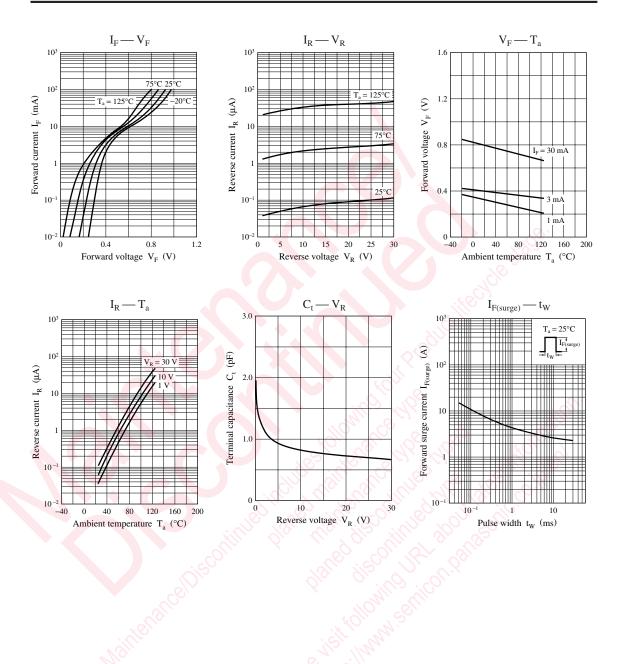
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	IR	$V_R = 30 V$	S.		1	μΑ
Forward voltage	V _{F1}	$I_F = 1 \text{ mA}$	7.7		0.4	V
	V _{F2}	$I_F = 30 \text{ mA}$			1.0	
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time	t _{rr}	$I_F = I_R = 10 \text{ mA}$		1.0		ns
ille		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
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.*: trr measurement circuit
 - 3. Absolute frequency of input and output is 2 GHz.





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