



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# MA2Z0010G

## Silicon epitaxial planar type

For switching circuits

### ■ Features

- High breakdown voltage:  $V_R = 200$  V
- Small terminal capacitance  $C_t$
- Suitable for high-density mounting

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	200	V
Repetitive peak reverse voltage	$V_{RRM}$	250	V
Forward current (Average)	$I_{F(AV)}$	100	mA
Repetitive peak forward current	$I_{FRM}$	225	mA
Non-repetitive peak forward surge current *	$I_{FSM}$	500	mA
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

Note) \*:  $t = 1$  s

### ■ Package

- Code  
SMini2-F3
- Pin Name  
1: Anode  
2: Cathode

### ■ Marking Symbol: 1K

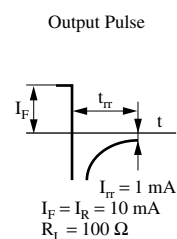
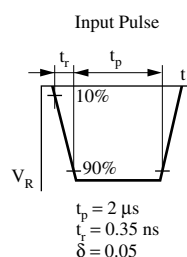
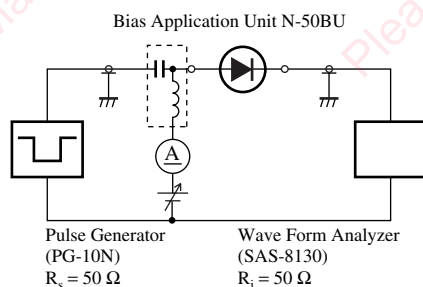
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 100$ mA			1.2	V
Reverse current	$I_R$	$V_R = 200$ V			1.0	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0$ V, $f = 1$ MHz			3.0	pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 10$ mA $I_{rr} = 1$ mA, $R_L = 100$ $\Omega$			60	ns

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring method for diodes.

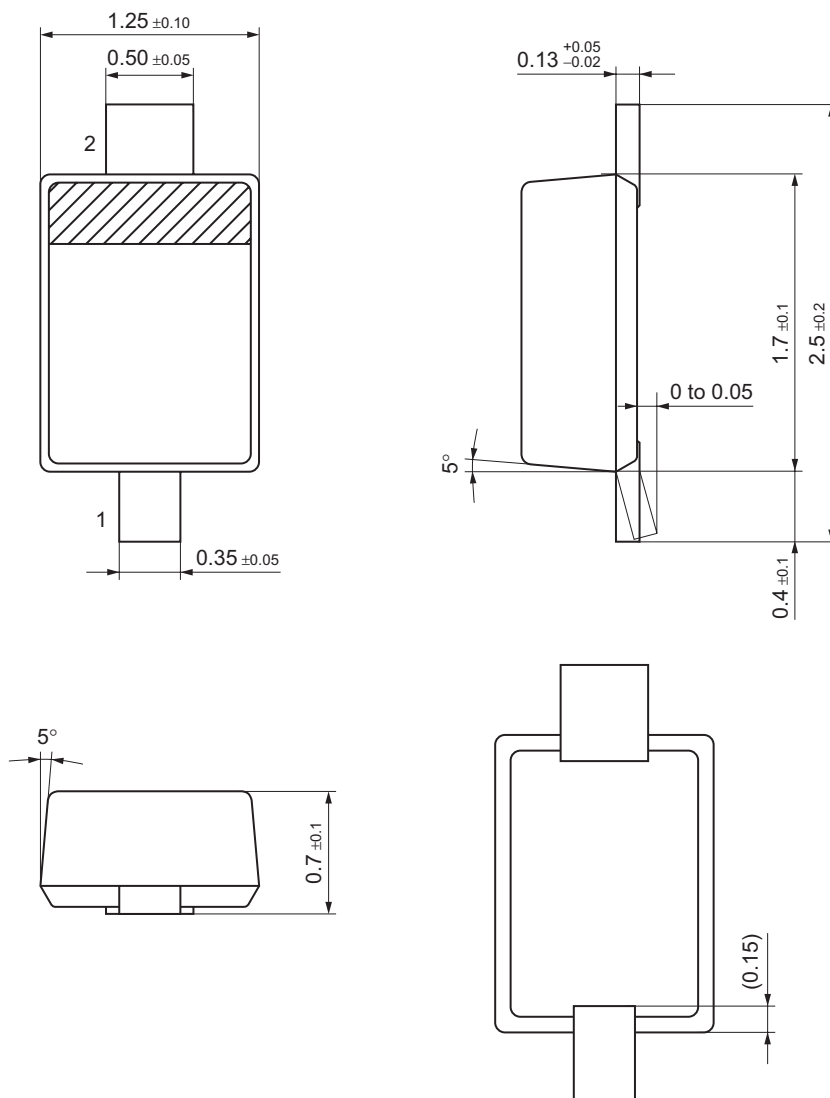
2. Absolute frequency of input and output is 20 MHz.

3. \*:  $t_{rr}$  measurement circuit



# SMini2-F3

Unit: mm



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