

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!



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MA4SD10

Silicon epitaxial planar type

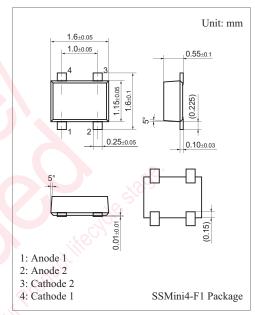
For super-high-speed switching circuits

■ Features

- Two isolated elements are contained in one package, allowing high-density mounting
- Low forward voltage V_F

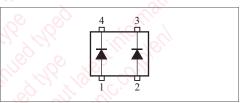
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit	
Reverse voltage	V_R 20		V		
Repetitive peak reverse voltage		V _{RRM}	20	V	
Forward current (Average)	Single	Ţ	200	mA	
	Double	$I_{F(AV)}$	150		
Peak forward current	Single	ī	300	mA	
	Double	I_{FM}	225		
Junction temperature		T_j	125	°C	
Storage temperature		T _{stg}	-55 to +125	°C	



Marking Symbol: M2A

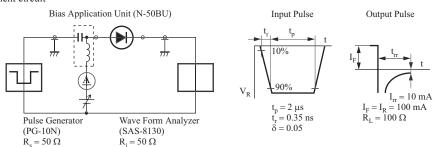
Internal Connection



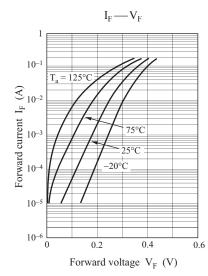
■ Electrical Characteristics $T_a = 25$ °C±3°C

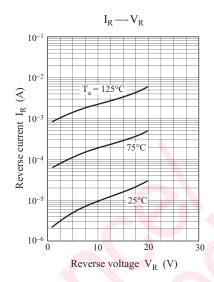
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm Fl}$	$I_F = 5 \text{ mA}$	60.		0.27	V
	V_{F2}	$I_F = 100 \text{ mA}$			0.40	
	V_{F3}	I _F = 200 mA			0.47	
Reverse current	I_R	$V_R = 10 \text{ V}$			20	μΑ
Terminal capacitance	C _t	$V_R = 0 \text{ V, } f = 1 \text{ MHz}$		25		pF
Reverse recovery time *	t _{rr}	$ \begin{vmatrix} I_F = I_R = 100 \text{ mA}, I_m = 10 \text{ mA} \\ R_L = 100 \Omega \end{vmatrix} $		3		ns

- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. Absolute frequency of input and output is $250\ \text{MHz}$
 - 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. *: t_{rr} measurement circuit



MA4SD10 Panasonic





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