

MA4S111

Silicon epitaxial planar type

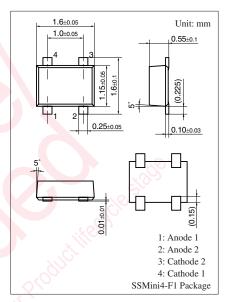
For switching circuits

■ Features

- Allowing high-density mounting
- Short reverse recovery time t_{rr}
- Small terminal capacitance C_t

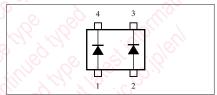
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	80	V
Maximum peak reverse voltage		V _{RM}	80	V
Forward current	Single	I_{F}	100	mA
	Double		75	
Repetitive peak	Single	I_{FRM}	225	mA
forward current	Double		170	
Junction temperature		T _j	150	°C
Operating ambient temperature		T _{opr}	-30 to +85	°C
Storage temperature		T_{stg}	-55 to +150	°C



Marking Symbol: M1B

Internal Connection

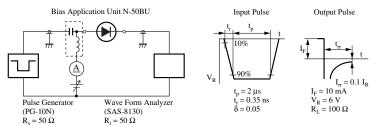


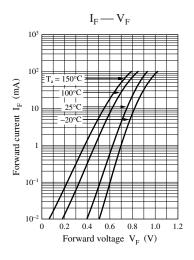
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

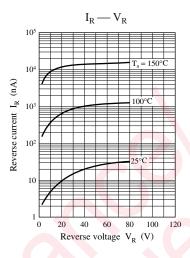
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	I _F = 100 mA		0.95	1.2	V
Reverse voltage	V _R	$I_R = 100 \mu A$	80			V
Reverse current	I_R	V _R = 75 V			100	nA
Terminal capacitance	C _t	$V_R = 0 \text{ V, } f = 1 \text{ MHz}$		0.6	2	pF
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$				

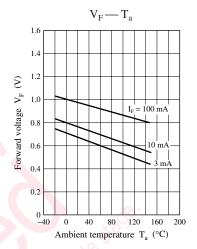
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring method for diodes.

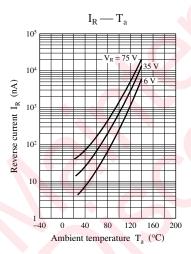
- 2. Absolute frequency of input and output is 100 MHz.
- 3. *: t_{rr} measurement circuit

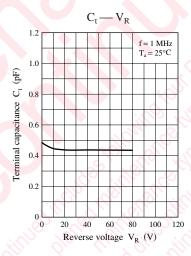


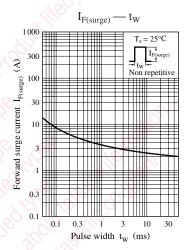












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