# MA3S133 (MA133)

## Silicon epitaxial planar type

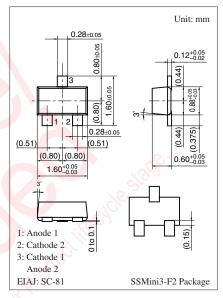
### For switching circuits

#### ■ Features

- Two isolated elements contained in one package, allowing highdensity mounting
- Two diodes are connected in series in the package

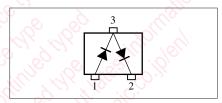
### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit	
Reverse voltage		$V_R$	80	V	
Maximum peak reverse voltage		V <sub>RM</sub>	80	V	
Forward current	Single	$I_{F}$	100	mA	
	Series		65		
Peak forward	Single	$I_{FM}$	200	mA	
current	Series		130		
Junction temperature		T <sub>j</sub>	150	°C	
Storage temperature		T <sub>stg</sub>	-55 to +150	°C	



Marking Symbol: MP

#### Internal Connection

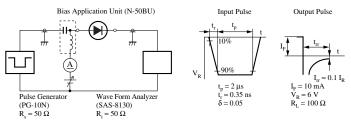


#### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 100 \text{ mA}$	00,		1.2	V
Reverse voltage	V <sub>R</sub>	$I_R = 100 \mu A$	80			V
Reverse current	$I_R$	V <sub>R</sub> = 75 V			100	nA
Terminal capacitance	C <sub>t</sub> *1	$V_R = 0 V, f = 1 MHz$			5.5	pF
	C <sub>t</sub> *2				3.0	
Reverse recovery time *3	t <sub>rr</sub> *1	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			150	ns
H.	t <sub>rr</sub> *2	$I_{rr} = 0.1 I_R, R_L = 100 \Omega$			9	

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

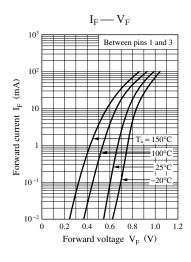
- 2. Absolute frequency of input and output is 100 MHz.
- 3. \*1: Between pins 2 and 3
  - \*2: Between pins 1 and 3
  - \*3: t<sub>rr</sub> measurement circuit

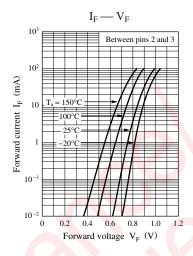


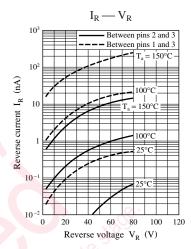
Note) The part number in the parenthesis shows conventional part number.

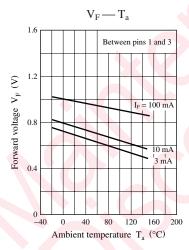
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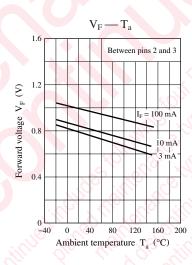
## **Panasonic**

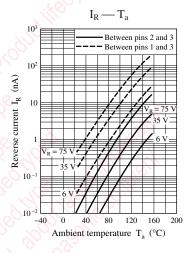


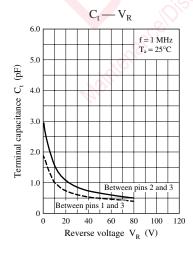


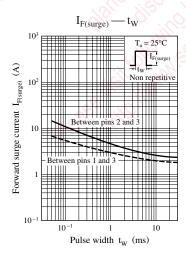












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