MA3S133 (MA133)

Silicon epitaxial planar type

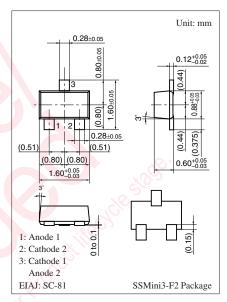
For switching circuits

■ Features

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

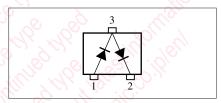
■ Absolute Maximum Ratings $T_a = 25$ °C

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



Marking Symbol: MP

Internal Connection

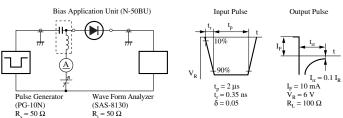


■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 100 \text{ mA}$	00)		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 *1	$V_R = 0 V, f = 1 MHz$			5.5	pF
	C _t *2	i ili la mi			3.0	
Reverse recovery time *3	t _{rr} *1	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			150	ns
14.	t _{rr} *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.

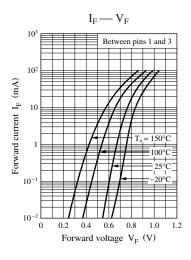
- 2. Absolute frequency of input and output is 100 MHz.
- 3. *1: Between pins 2 and 3
 - *2: Between pins 1 and 3
 - *3: t_{rr} measurement circuit

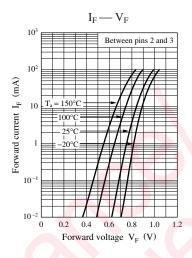


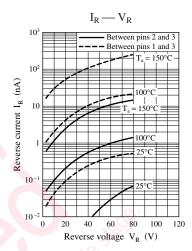
Note) The part number in the parenthesis shows conventional part number.

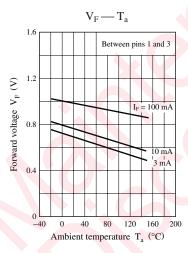
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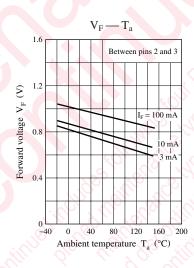
Panasonic

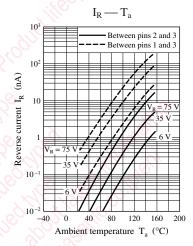


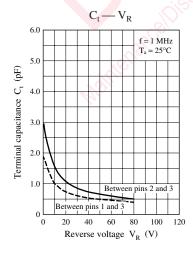


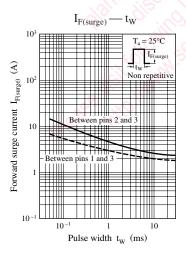












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