Switching Diodes

MA3S133 (MA133)

Silicon epitaxial planar type

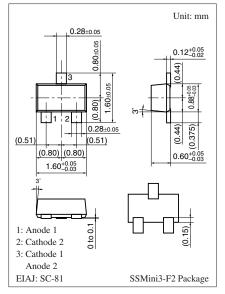
For switching circuits

Features

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

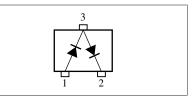
Parameter		Symbol	Rating	Unit				
Reverse voltage		V _R	80	V				
Maximum peak reverse voltage		V _{RM}	80	V				
Forward current	Single	I _F	100	mA				
	Series		65					
Peak forward	Single	I _{FM}	200	mA				
current	Series		130					
Junction temperature		Tj	150	°C				
Storage temperature		T _{stg}	-55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

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



Marking Symbol: MP

Internal Connection

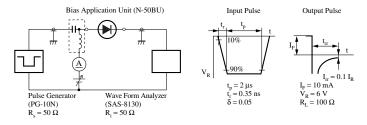


Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage	V _R	$I_R = 100 \ \mu A$	80			V
Reverse current	I _R	V _R = 75 V			100	nA
Terminal capacitance	C _t *1	$V_R = 0 V, f = 1 MHz$			5.5	pF
	C _t *2				3.0	
Reverse recovery time *3	t _{rr} *1	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			150	ns
	t _{rr} *2	$I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$			9	

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

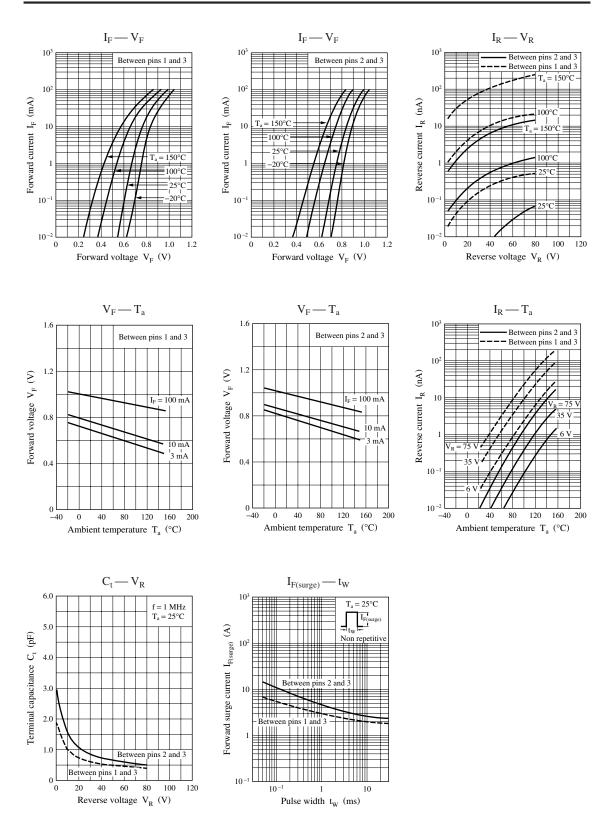
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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



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

Panasonic



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