MA3J147 (MA147)

Silicon epitaxial planar type

For high-speed switching circuits

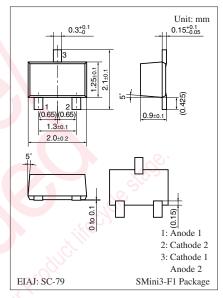
■ Features

- 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

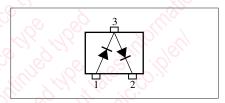
Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	80	V
Maximum peak reverse voltage		V _{RM}	80	V
Forward current	Single	I_{F}	100	mA
	Series		65	
Peak forward	Single	I_{FM}	225	mA
current	Series		145	
Non-repetitive peak	Single	I_{FSM}	500	mA
forward surge current *	Series		325	j,
Junction temperature		T _j	150	°C
Storage temperature		T _{stg}	-55 to +150	°C

Note) *: t = 1 s



Marking Symbol: MS

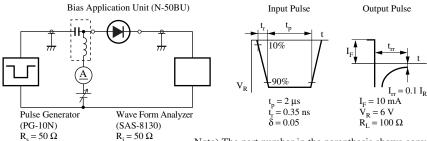
Internal Connection



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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	I _F = 100 mA	1.90		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	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$			2	pF
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
"VSI		$I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$				

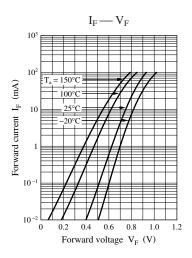
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. Absolute frequency of input and output is 100 MHz.
 - 3. *: t_{rr} measurement circuit

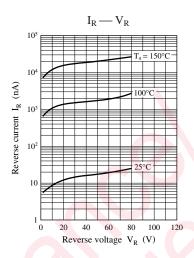


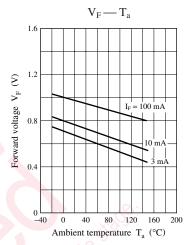
Note) The part number in the parenthesis shows conventional part number.

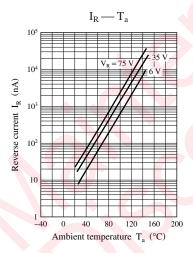
1

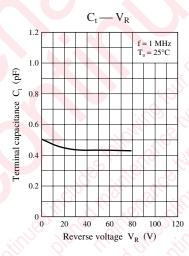
Panasonic

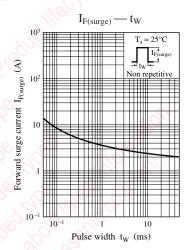












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